NP6012/NP6012F/NP6212

SERVICE MANUAL

REVISION 1 SEPT. 1995

Canon
FY8-13DW-010

COPYRIGHT 1995 CANON INC.
CANON NP6012/NP6012F/NP60212 REV.1 SEPT. 1995 PRINTED IN JAPAN

I. FEATURES

1. **Fixed copyboard with zooming.**
   - In addition to the default reproduction ratios, a ratio between 70% and 141% may be selected.

2. **Designed with considerations for the environment.**
   - The use of a charging roller helps to limit the generation of ozone; average of 0.01 ppm or less, maximum of 0.02 ppm or less. (1/100 to 1/000 of existing machines)

3. **Uses a SURF fixing assembly.**
   - The use of the SURF fixing mechanism enables a 0-sec wait time.
   - In addition, the maximum power consumption is 0.98 kW or less.

4. **Cassette accommodating various types of paper and 2-way pick-up.**
   - The universal cassette (about 250 sheets) accommodates paper of sizes between A4/LTR and A5/STMT.
   - In addition, sheets as large as A4/LTR to business card may be used (manual).

5. **Separate top unit.**
   - The copier's top unit may be opened to make jam removal easy.

COPYRIGHT © 1995 CANON INC.
CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

II. SPECIFICATIONS

A. Copier

1. Type

Body	Desktop
Copyboard	Fixed
Light source	Fluorescent lamp (17 W)
Lens	Fixed lens array
Photosensitive medium	OPC (24 dia.)

2. System

Copying		Indirect static reproduction
Charging		Roller (direct charging)
Exposure		Slit (moving light source)
Copy density adjustment		Automatic (AE) or manual
Development		Dry
Pick-up	Auto	Cassette (1 holder)
	Manual	Multifeeder
Separation		Curvature separation + static eliminator
Fixing		Flat heater
Cleaning		Blade
Original orientation		Center reference (copyboard)

COPYRIGHT © 1995 CANON INC.
CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

3. Performance

Original type		Sheet, book, 3-D object (2 kg max.)	
Maximum original size		A4/LTR, (LGL)	
Maximum original size		1 : 1	
Reproduction ratio	DIRECT	1 : 1	
		115V	220/240V
	REDUCE I	1 : 0.707	1 : 0.707
	REDUCE II	1 : 0.786	
	REDUCE III		1 : 0.816
	REDUCE IV	1 : 0.860	
	ENLARGE I		1 : 1.154
	ENLARGE II	1 : 1.414	1 : 1.414
	ZOOM	70%~ 141% (in 1% increments)	
Wait time		0 sec (approx.; at 15°C/68°F)	
First copy time		10 sec (approx.; at 15°C/68°F, with scanning lamp heater ON)	
Continuous copying		100 copies (max.)	
Copying speed		See Table 1-101.	
Copy size		A4R/LTR-R (max.), business card (min.)	
Copy paper type	Cassette	Plain paper (64 to 80 g/m^2), tracing paper (GNT80), colored paper*	
	Multifeeder	Plain paper (52 to 128 g/m^2), tracing paper (GNT80), colored paper*, postcard*, transparencies*[1], business card (200 g/m^2 or less, 51×88 mm or more), label sheet*	
	Two-sided/ overlay: Manual	Plain paper (60 to 128 g/m^2), colored paper*, postcard*, business card (200 g/m^2 or less, 51×88 mm /2.0×3.5 in. or more)	
Cassette		250 sheets, clawless, front loading, A4/LGL to A5/STM (universal)	
Multifeeder tray		5 mm /0.20 in. deep (approx.; about 50 sheets of 80 g/m^2 paper)	
Copy tray		100 sheets (approx.; A4, 80 g/m^2 paper)	
Non-image width	Leading edge	2.0±1.5 mm /0.08±0.06 in. (two-sided/overlay/one-sided)	
	Left/right	0.0+2.0-0.0 (A4), 0.0+4.0-0.0 (LGL/LTR) (two-sided/overlay/one-sided)	
Auto power off		Available (about 5 min; fixed)	

*As recommended by Canon.
[1]Single feeding only.

COPYRIGHT © 1995 CANON INC.

4. Others

Operating environment	Temperature	7.5 to 32.5°C/45.5 to 90.5°F	
	Humidity	5 to 85%	
	Atmospheric pressure	810.60 to 1013.25hPa	
Power supply	115V 60Hz	Serial number	
		NP6012	NP6012F
		NUB xxxxx, NUC xxxxx	NUE xxxxx
	220/240V 50Hz	Serial number	
		NP6012	NP6212
		PTF xxxxx, UTG xxxxx, RTG xxxxx, TFA xxxxx	PTH xxxxx
Power consumption	Maximum	0.9 kW or less	
	Standby	about 20 W with scanning lamp heater ON about 17 W with scanning lamp heater OFF (approx.; about 5 min; reference only)	
	Copying	0.4 kWh (approx.; reference only)	
Noise	Standby	———	
	Copying	66 dB or less (sound power level under ISO)	
Ozone		0.01 ppm or less (average), 0.02 ppm or less (max.)	
Dimensions	Width	478 mm /18.8 in (approx.)	
	Depth	453 mm /17.8 in (approx.)	
	Height	290 mm /11.4 in (approx.)	
Weight		20.0 kg /44.0lb (approx.; including cassette)	
Consumables	Copy paper	Keep wrapped to protect against humidity.	
	Toner	Avoid direct sunshine; keep at 40°C/85% or less.	

COPYRIGHT © 1995 CANON INC.
CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

Ratio mode		Size	Paper size	Copies/min
DIRECT		A4R	A4R	12
		B5R	B5R	12
		A5R	A5R	12
		LGL	LGL	10
		LTR-R	LTR-R	12
		STMT-R	STMT-R	12
REDUCE	I	A4R → A5R	A5R	12
	II	LGL → LTR-R	LTR-R	12
	III	B5R → A5R	A5R	12
	IV	MARJIN	LTR-R	12
ENLARGE	I	B5R → A5R	A5R	10
	II	A5R → A4R	A4R	9

Table 1-101

B. ADF

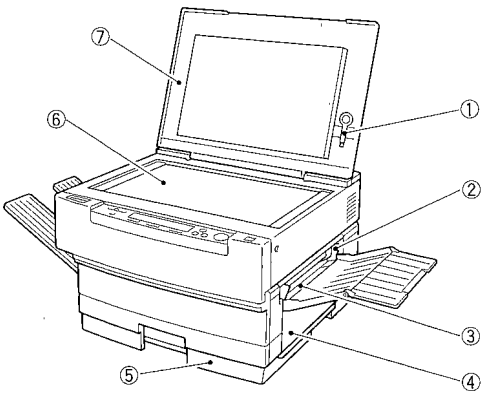
Item		Specifications	Remarks
Original pick-up		Automatic pick-up / delivery	
Original placement		Face down	Place the first page at the bottom.
Original orientation		Center reference	
Original separation		Top (top original picked up first)	
Original type		50 to 128 g/m (sheet ; one-side)	
Original size		A4 (LTR) to A5 (STMT), LGL	
Original tray capacity		30 sheets (stack height about 3 mm/0.1 in)	Paper of 80 g/m or less.
Original processing		One-sided originals	
Original size identification		Yes (in feeding direction)	Not linked with the copier.
Original detection at strat		Yes	Linked with the copier.
Size	Width	474mm/18.8 in (approx.; with tray open, about 659mm/25.9 in)	
	Depth	394mm/15.5 in (approx.)	
	Height	74mm/2.9 in (approx.)	
Weight		5kg/11 lb (approx.)	
Power supply		+24 VDC, +5 VDC (from copier)	
Maximum power consumption		40 W or less	

COPYRIGHT © 1995 CANON INC.

III. NAMES OF PARTS

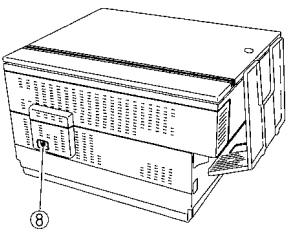
A. External View

1. NP6012



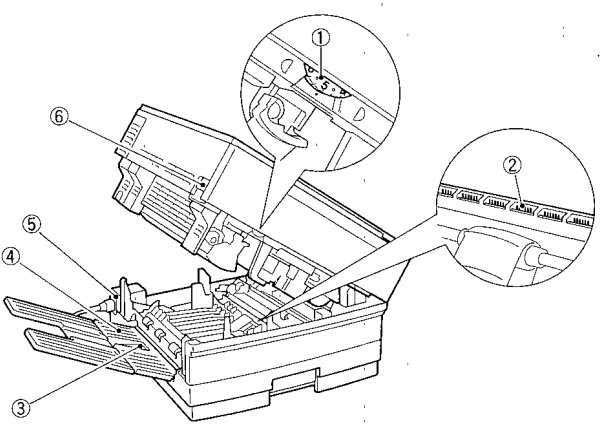
① Static eliminator cleaner
② Slide guide
③ Multifeeder
④ Right door
⑤ Cassette
⑥ Copyboard glass

Figure 1-301



⑦ Copyboard cover
⑧ Scanning lamp heater switch

Figure 1-302

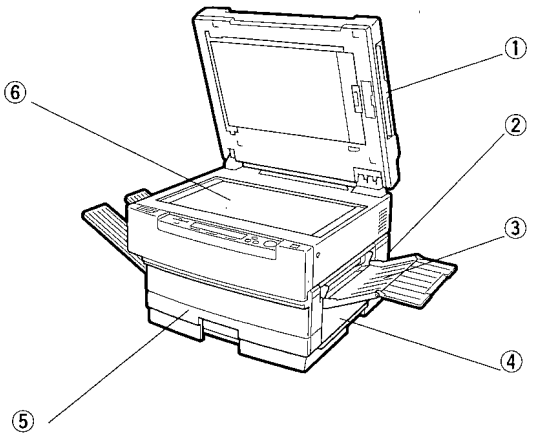


① Copy density correction dial
② Static eliminator
③ Delivery guide plate
④ Copy tray
⑤ Power cord connector
⑥ Open/close lever

Figure 1-303

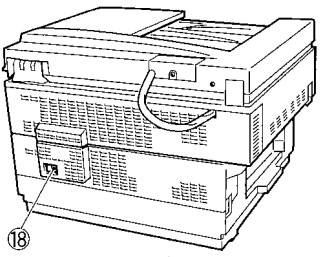
COPYRIGHT © 1995 CANON INC.
CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

2. NP6012F / NP6212



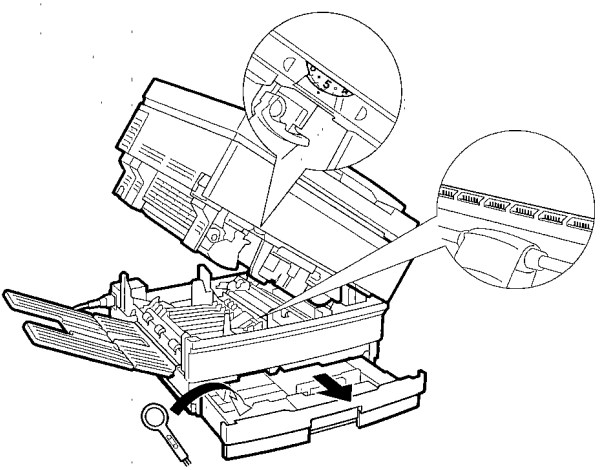
① ADF
② Slide guide
③ Multifeeder
④ Right door
⑤ Cassette
⑥ Copyboard glass

Figure 1-304



⑦ Scanning lamp heater switch

Figure 1-305



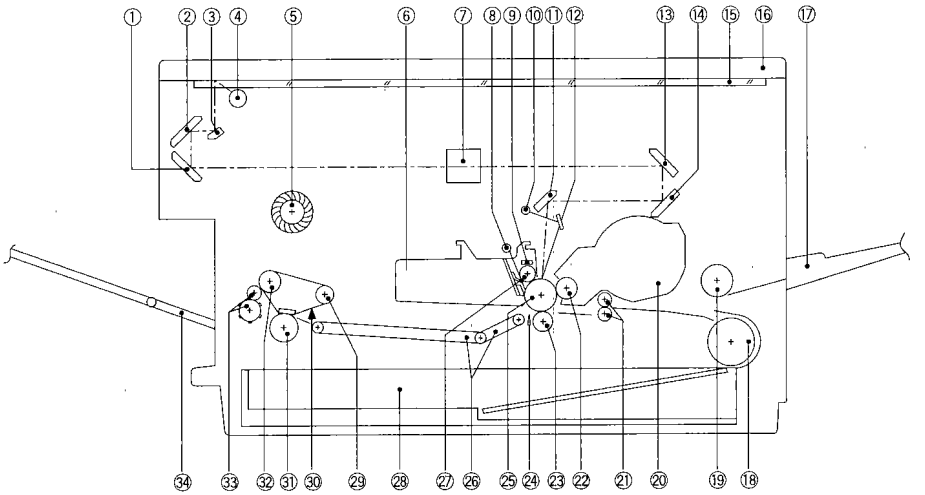
① Copy density correction dial
② Static eliminator
③ Delivery guide plate
④ Copy tray
⑤ Power cord connector
⑥ Open/close lever
⑦ Static eliminator cleaner

Figure 1-306

COPYRIGHT © 1995 CANON INC.

B. Cross Section

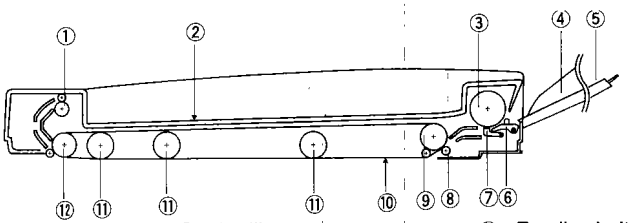
1. Copier



① No. 3 mirror
② No. 2 mirror
③ No. 1 mirror
④ Scanning lamp
⑤ Heat exhaust fan
⑥ Drum unit
⑦ Lens array
⑧ Pre-exposure lamp
⑨ No. 1 charging roller cleaning pad
⑩ Side blank exposure lamp
⑪ No. 6 mirror
⑫ Reflecting plate
⑬ No. 4 mirror
⑭ No. 5 mirror
⑮ Copyboard glass
⑯ Copyboard cover
⑰ Multifeeder tray
⑱ Cassette pick-up roller
⑲ Multifeeder pick-up roller
⑳ Developing assembly
㉑ Registration roller
㉒ Developing cylinder
㉓ Transfer roller
㉔ Static eliminator
㉕ Photosensitive drum
㉖ Feeding assembly
㉗ Primary charging roller
㉘ Cassette
㉙ Fixing film tension roller
㉚ Fixing film
㉛ Lower fixing roller
㉜ Fixing film drive roller
㉝ Delivery roller
㉞ Delivery tray

Figure 1-307

2.ADF



① Delivery roller
② Delivery tray
③ Pick-up roller
④ Original tray
⑤ Auxiliary tray
⑥ Guide plate
⑦ Separation pad
⑧ Registration roller
⑨ Feeding belt drive roller
⑩ Feeding belt
⑪ Feeding belt roll
⑫ Feeding belt link roller

Figure 1-308

COPYRIGHT © 1995 CANON INC.
CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

IV. OPERATIONS

A. Control Panel

1. NP6012

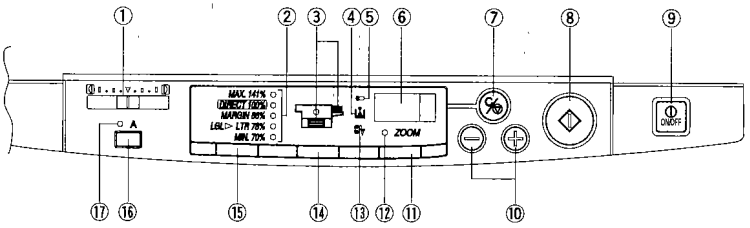


Figure 1-401a (Inch-configuration)

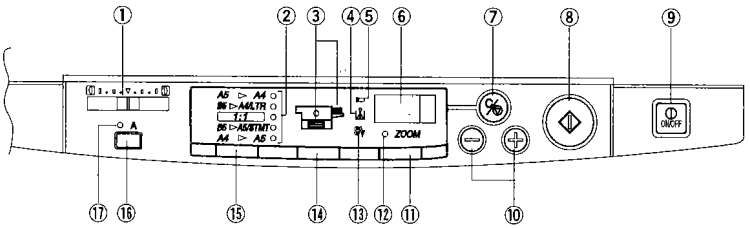


Figure 1-401b (AB/Inch-configuration)

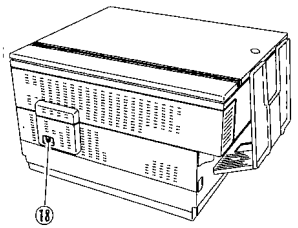


Figure 1-401c

COPYRIGHT © 1995 CANON INC.

2. NP6012/NP6212

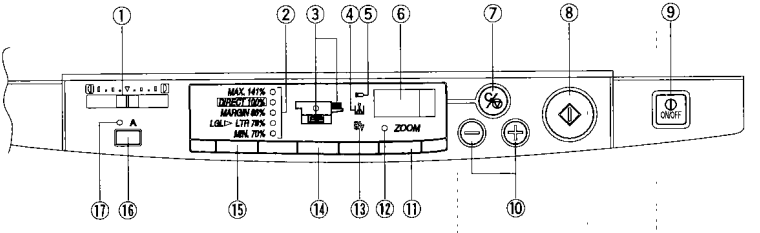


Figure 1-401d (NP6012F)

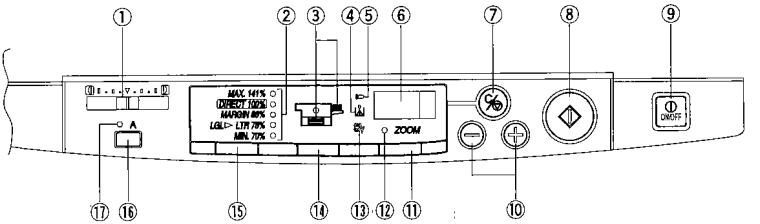


Figure 1-401e (NP6212)

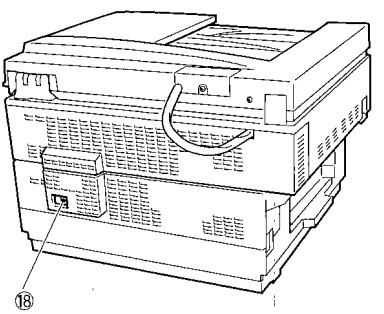


Figure 1-401f

 COPYRIGHT © 1995 CANON INC.

Ref.	Name	Description	Remarks
1	Copy Density Adjust lever	Use it to manually adjust the copy density.	
2	Ratio indicator	Indicates the selected reproduction ratio.	
3	Paper Select/ Add Paper indicator	• Indicates the selected cassette or multifeeder. • Flashes when paper runs out.	
4	Replace Toner Cartridge indicator	Flashes when the toner cartridge must be replaced.	
5	Replace Drum Unit indicator	If the model has the drum unit replacement time auto indication function, flashes then remains on when the drum unit must be replaced and remains on when the waste toner must be disposed of. If the model does not have the function, flashes when the waste toner must be disposed of.	
6	Copy Count/ Ratio indicator	Indicates the copy count or reproduction ratio.	100 (max.; continuous copying)
7	Clear/Stop key	Stops copying or returns the copy mode to default*.	*Default Mode Reproduction ratio: 100% Copy count: 1 Paper select: cassette Copy density: AE
8	Copy Start key	Starts copying.	
9	Power switch	Turns on and off the power.	
10	Copy Count/ Zoom Set key	Sets a copy count or a reproduction ratio.	
11	Zoom Mode key	Selects or deselects zoom mode.	
12	Zoom indicator	Turns on when zoom mode is selected.	
13	Jam indicator	Flashes when a jam occurs.	
14	Paper Select key	Selects the cassette as the source of paper or Selects the multifeeder.	
15	Default Ratio key	Selects a default reproduction ratio.	May be between 70% and 141% in 1% increments.
16	AE key	Selects or deselects AE mode.	
17	AE indicator	Turns on when AE is selected.	
18	Scanning Lamp Heater switch	Prevents delayed first copy time in a cold environment. OFF at time of shipment.	

Table 1-401

COPYRIGHT © 1995 CANON INC.

B. Basic Copying Operations

1) Turn on the power switch.
   - The wait time is 0 sec.
   - The auto power-off mechanism becomes activated to automatically turn off the power if no key is operated in about 5 min.
2) If you are not using the ADF, lift the copyboard cover, and place an original face down along the size index.
   a. Place the original so that its center is aligned against the arrow (→); then, bring down the copyboard cover.

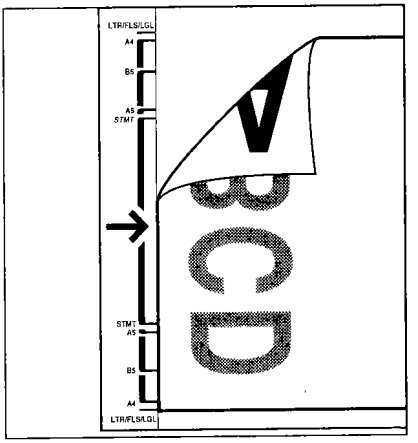
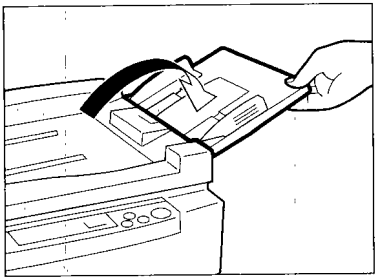
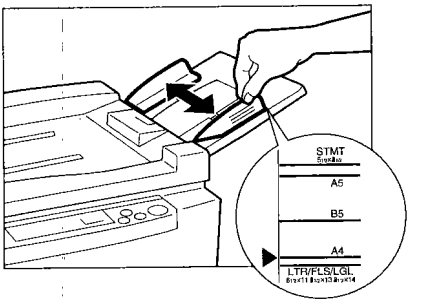


Figure 1-402





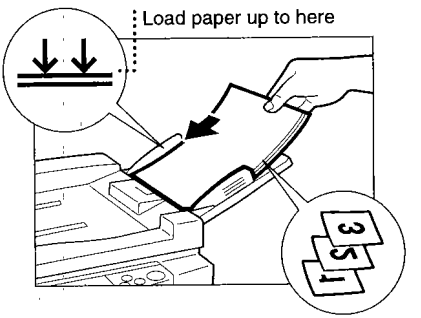
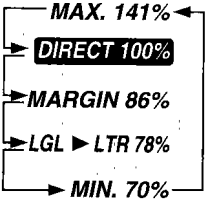


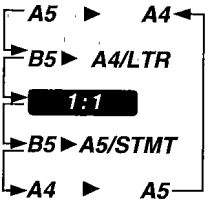
Figure 1-403

COPYRIGHT © 1995 CANON INC.
CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

3) If you need to manually adjust the copy density, deselect AE and use the Copy Density Adjust lever.
4) As necessary, press the Default Ratio key or Zoom key.
   a. When you press the Zoom key, '%' appears on the Copy Count/Ratio indicator so that you may set the ratio between 70% and 141% in 1% increments.
   '%' disappears if the Copy Count/ Ratio key is not operated in about 3 sec.
   b. When you press the Default Ratio key, the ratio changes as follows for each press:



(Inch- configuration)



(AB/Inch- configuration)

5) If you are using the multifeeder, press the Paper Select key.
6) Check that the '%' notation on the Copy Count/Ratio indicator has turned off; then, set the number of copies to make using the Copy Count/Zoom Set key. (The count should appear on the Copy Count indicator.)
7) Press the Copy Start key.
   a. As may copies as you have specified will be made automatically.
   b. No other keys than the Clear/Stop key or Copy Density adjustment lever/AE OFF will be accepted until the last copy has been made.
   c. You may switch from automatic density adjustment mode to manual density adjustment mode between copying has started and the last copy is made; however, you cannot switch from manual density adjustment mode to automatic density adjustment.
   d. When copying is finished, the Copy Count indicator indicates the initial copy count. If copying stopped as a result of the absence of paper, a press on the Copy Start key after supplying paper will automatically make the remaining number of copies.
   e. To stop copying operation during continuous copying, press the Clear/Stop key; the ongoing copy run is finished before the operation stops. (At this time, the Copy Count indicator indicates the initial count.)
   f. If paper jams, the JAM indicator will flash and copying operation stops; open the top unit. (The power turns off when the top unit is opened for removal of the jam.)
   g. After copying operation is over, the auto power-off mechanism becomes activated if the copier is left alone for about 5 min without further key operation, automatically turning off the power.

1. Using Transparencies

1) Shift the delivery guide plate on the copy tray upright.

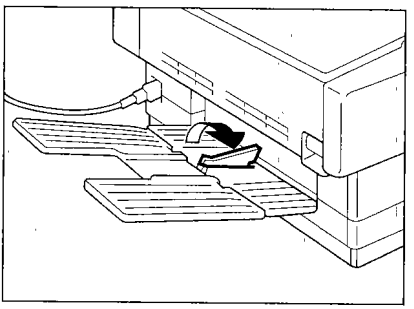
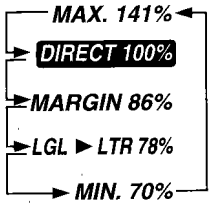
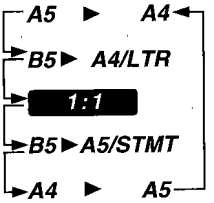


Figure 1-404

2) Place an original on the copyboard, and close the copyboard cover.
3) If you want to manually adjust the copy density, deselect AE, and operate the Copy Density Adjust lever.
4) Press the Default Ratio key or Zoom Mode key to suit the reproduction ratio you want.
   a. When you press the Zoom key, you may set the ratio between 70% and 141% in 1% increments.
   b. When you press the Default Ratio key, the ratio changes as follows for each press:



(Inch- configuration)



(AB/Inch- configuration)

5) Place a single transparency on the singlefeeder.
   • You must not set more than one transparency on the singlefeeder.
6) Select the multifeeder using the Paper Select key.
7) Set the copy count you want using the Copy Count/Zoom Set key; then, check the Copy Count indicator.
8) Press the Copy Start key.
   • Be sure to remove each transparency delivered to the copy tray before the next one is delivered.

If the Transparency Is Not Picked Up Smoothly

• Under certain environmental conditions, transparencies may fail to move into the machine in response to a press on the Copy Start key. If this is the case, go through the following:

1) Place copy paper underneath the transparency with a displacement of about 1 cm.

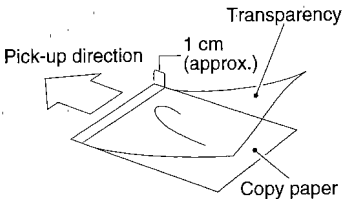


Figure 1-405

2) Set the transparency together with the copy paper on the multifeeder while holding the trailing edge of the copy paper.
3) Press the Copy Start key while still holding the trailing edge of the copy paper; hang on to the copy paper, and remove it when the transparency has disappeared into the machine.

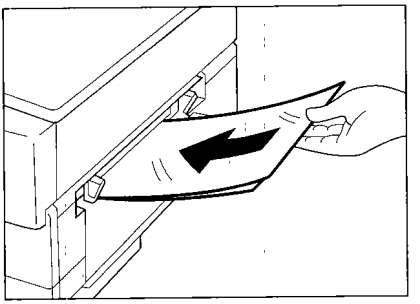


Figure 1-406

COPYRIGHT © 1995 CANON INC.
CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

2. Making Two-Sided Copies

You can make two-sided copies using the multifeeder; however, you must keep the following in mind:

① After the first copy run, turn over the copy paper and set it as shown in Figure 1-406

② Make sure the paper is not moist.
③ Make sure that the paper is not curled.
④ Make sure that the paper is of 64 to 128 g/m² (business card, 200 g/m² or less).
⑤ In the case of a two-sided copy, each side may not be used more than once.
⑥ After the first copy run, cool the paper sufficiently and remove the curl before feeding it for the second copy run.

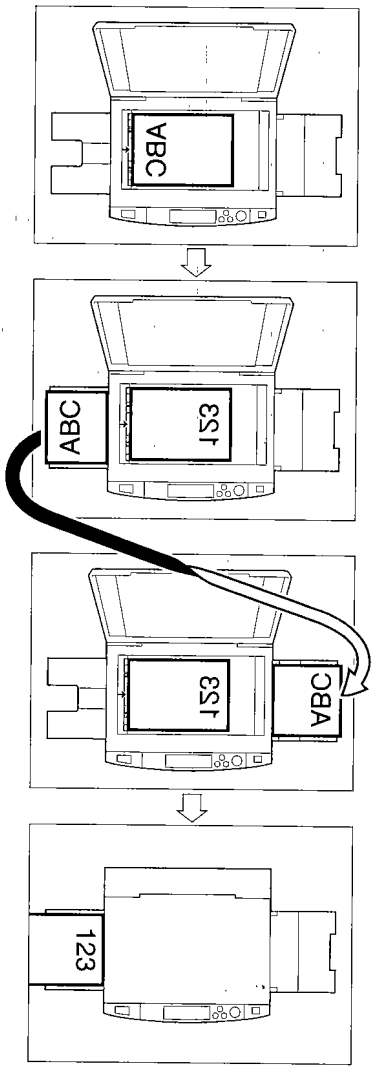


Figure 1-407

COPYRIGHT © 1995 CANON INC.

C. User Mode

1. Outline

The copier offers user mode which may be used by the user to change various settings.

No.	Count/ratio	Function	Description	Remarks
1	U1	Primary charging roller cleaning mode	Executes cleaning of the primary charging roller. The cleaning lasts about 3 sec, and stops automatically.	
2	U2	Copy count indication mode	Indicates the number of copies made by the installed drum unit.	Only in model with drum unit replacement time automatic indication function.
3	U3	Drum unit replacement indicator off mode	Turns off the flashing Replace Drum Unit indicator.	Only in model with drum unit replacement time automatic indication function.
4	U6	ADF cleaning mode	Clean the ADF's original feeding path.	NP6012F / NP6212 only.
5	U7	Installation/drum unit replacement mode	Used to enter data necessary when installing the machine or replacing the drum unit. Further, execute it after executing '34' or '37' in service mode.	Only in model without drum unit replacement time automatic indication function.

Table 1-402

COPYRIGHT © 1995 CANON INC.

2. Using User Mode

1) Turn on the copier, and hold down the AE key for 4 sec or more.
   - 'U1' appears on the count/ratio indicator.

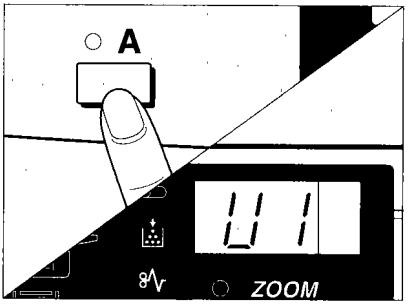


Figure 1-408

2) Press the +/- key so that the appropriate function number (U1 through U7) appears.
3) To end user mode, press the AE key.

Caution:
- You cannot start user mode while copies are being made or when a jam or an error has occurred.
- The auto power-off function remains disabled while user mode is being executed.

3. Primary Charging Roller Cleaning Mode (U1)

1) Operate so that 'U1' appears on the count/ratio indicator; then, press the Copy Start key.
   - 'U1' starts to flash to indicate the execution of cleaning; cleaning takes about 3 sec.
   - 'U1' stops flashing and remains on when cleaning is finished.

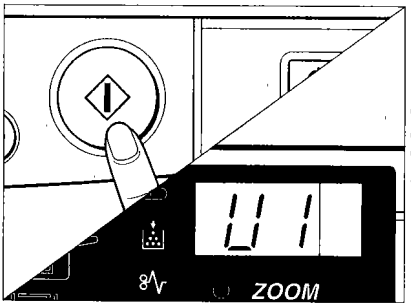


Figure 1-409

2) To end user mode, press the AE key.
   - The AE key remains disabled while user mode is being executed.

COPYRIGHT © 1995 CANON INC.

4. Copy Count Indication Mode* (U2)

*Only for a model with the drum unit replacement time automatic indication function.

1) Operate so that 'U2' appears on the count/ratio indicator; then, press the Copy Start key.

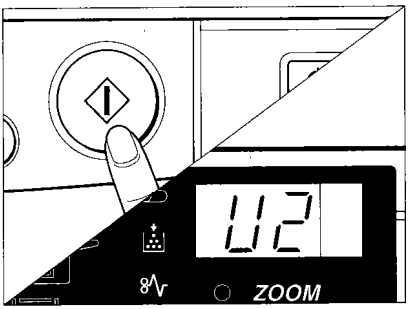


Figure 1-410

- The count/ratio indicator alternately indicates the 1000s and the 100s; for example, in the case of 12345, it indicates '1' and '23' alternately.

2) To end user mode, press the Copy Start key and then the AE key.
   - The AE key remains disabled while a copy count is being indicated.

5. Drum Unit Replacement Off Mode* (U3)

*Only for a model with the drum unit replacement time automatic indication function.

1) Operate so that 'U3' appears on the count/ratio indicator; then, press the Copy Start key.
   - 'U3' remains; however, the Replace Drum Unit indicator stops flashing and goes out.

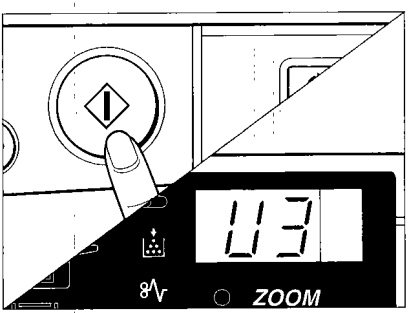


Figure 1-411

2) To end user mode, press the AE key.

COPYRIGHT © 1995 CANON INC.
CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

6. ADF Cleaning Mode (NP6012/NP6212 only)

1) Place about 10 sheets of white copy paper on the original tray of the ADF.
2) Operate so that 'U6' appears on the count/ratio indicator; then, press the Copy Start key.
   • The sheets of copy paper on the original tray of the ADF will be picked up in sequence.

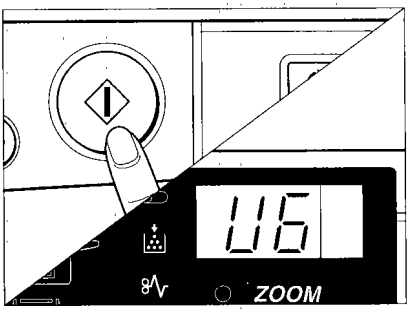


Figure1-412

3) To end user mode, press the AE key.

7. Installation/Drum Unit Replacement Mode (U7)

*Only for a model with the drum unit replacement time automatic indication function.

1) Operate so that 'U7' appears on the count/ratio indicator; then, press the Copy Start key.
   • The indication changes to '71'.

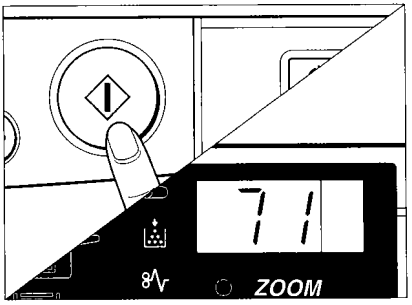


Figure 1-413

2) Using the +/- key, enter the value of 'PRIMARY' recorded on the drum unit.
   • Appears in the top left of the count/ratio indicator while a value is being entered.

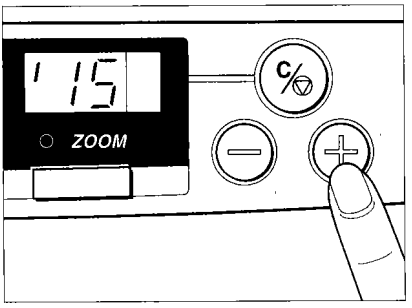


Figure 1-414

3) After entering the value of 'PRIMRY', press the Copy Start key to store the value.
   • A press on the Copy Start key changes the indication to '72'.

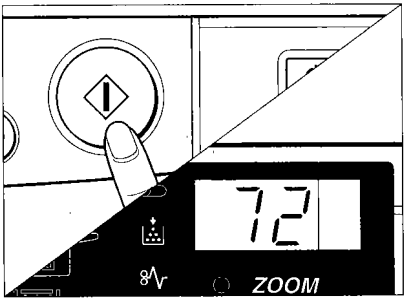


Figure 1-415

COPYRIGHT © 1995 CANON INC.

4) Using the +/- key, enter the value under 'IP_OFST' recorded on the drum unit.
   - Appears in the top left of the count/ratio indicator while a value is being entered.

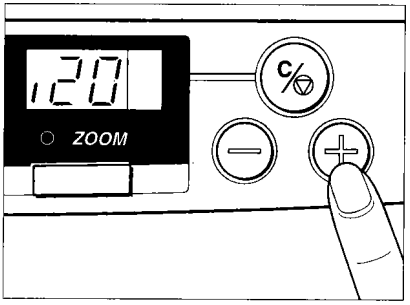


Figure 1-416

5) After entering the value of 'IP_OFST', press the Copy Start key to store the value.
   - A press on the Copy Start key changes the indication to '73'.

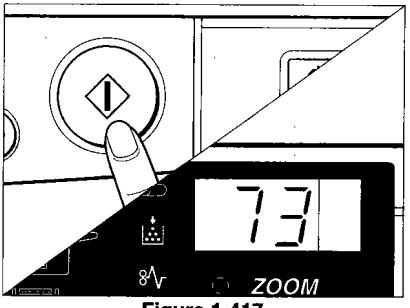


Figure 1-417

6) Press the Copy Start key to execute drum sensitivity automatic adjustment and toner stirring.
   - The main motor will rotate, and drum sensitivity automatic adjustment and toner stirring will start.
   - After the execution, the copier ends user mode automatically and stops operation in about 1 min.
   - A press on the AE key while the above execution is taking place ends user mode; however, the AE key will not be accepted while a setting is displayed or the main motor is rotating.

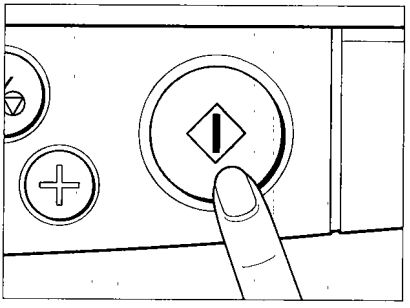


Figure 1-418

COPYRIGHT © 1995 CANON INC.
CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

D. Removing Jams

The Jam indicator flashes to indicate the presence of a jam inside the machine.

① Remove the jam with care so as not to tear it. Be sure to remove all pieces of paper if it has torn.

1) Check the multifeeder for a jam. To remove, pull the paper slowly out of the multifeeder.
2) Open the right cover, and check if there is copy paper. Remove the paper if found.
3) Shift the open/close lever to open the body.

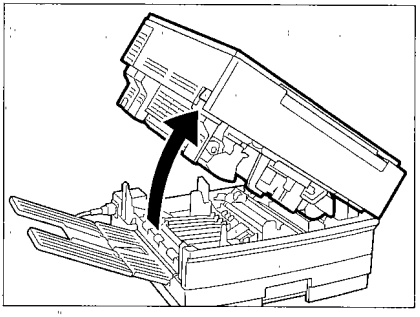


Figure 1-419

4) Pull out any jam from inside the machine with care.

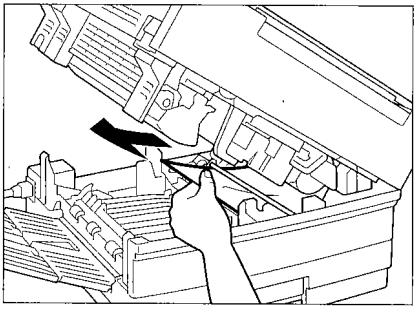


Figure 1-420

E. Adding Paper

The Add Paper indictor 'P' turns on in response to the following conditions:

① When the cassette has run out of paper.
② When the cassette is in the cassette holder.
③ When the Copy Start key is pressed without paper on the multifeeder.

1) Check if paper is set in the cassette.
2) If the cassette is out of paper, set copy paper.
   If there is paper in the cassette, go through the following:
   ① Open the right door, and check if there is a jam. Remove it if any.
   ② Take out the stack of paper from the cassette, put the sheets in order, and set the stack back in.
   ③ Make sure that the cassette is properly set in the cassette holder.
3) Press the Copy Start key.
   ① The 'P' indication should go off, and the copier will make the remaining number of copies.

COPYRIGHT © 1995 CANON INC.

F. Replace Toner Cartridge Indicator (⌀) and Action to Take

The replace toner cartridge indicator (⌀) starts to flash when toner runs out; perform the following to replenish the cartridge:

1) Lift the body open/close lever to open the body.

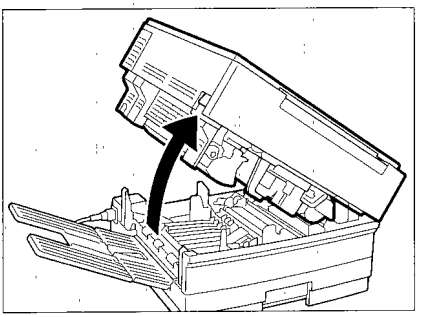


Figure 1-421

2) Turn the toner cartridge clockwise until it stops, and pull out the cartridge.

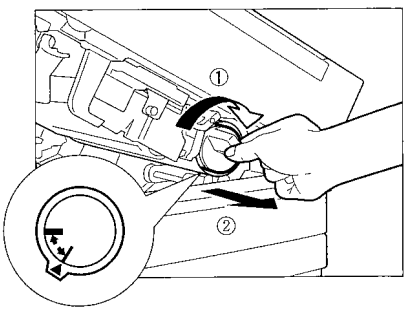


Figure 1-422

3) Hold the toner cartridge level, and shake it left and right several times.

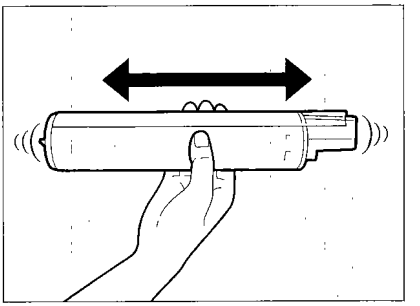


Figure 1-423

4) Insert the toner cartridge carefully until it stops.

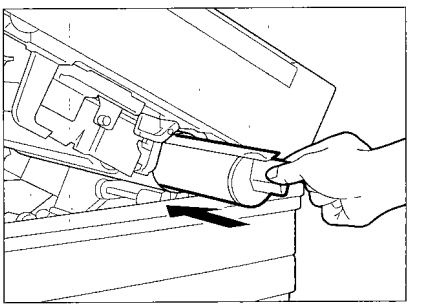


Figure 1-424

 COPYRIGHT © 1995 CANON INC.

5) While holding the toner cartridge in place, pull the OPEN seal straight to the front to peel it.

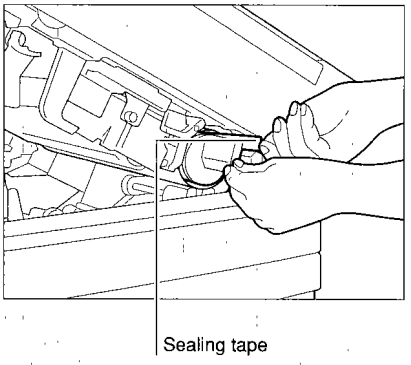


Figure 1-425

⚠Caution:
Never dispose of a sealing tape in a fire or incinerator.

6) Turn the toner cartridge counterclockwise until it stops.

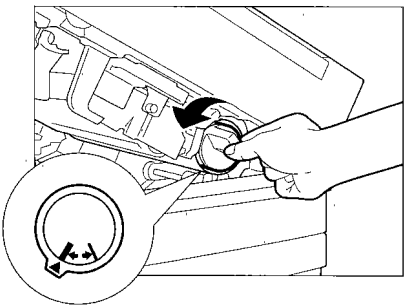


Figure 1-426

7) Press on the "✋" mark on the body to close it firmly.

⚠Caution:
Do NOT throw the toner cartridge into fire; it can burst or explode.

G. Using the Density Correction Dial

If the copy density is too high, i.e., the image is too dark, in density adjustment mode (AE or manual), you may adjust the copy density using the Density Correction dial.

1) Shift up the open/close lever to open the body.
2) Adjust the position of the density correction dial.

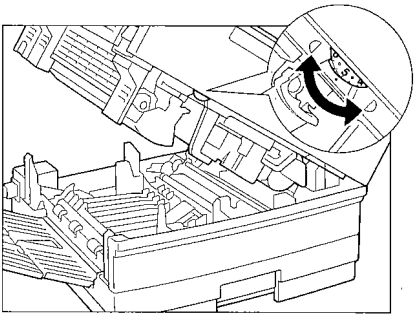


Figure 1-427

H. Using the Scanning Lamp Heater Switch

If the site of installation is subject to low temperature or the first time copy is subject to a delay, make use of the scanning lamp heater to prevent problems.

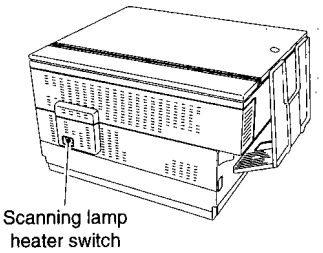


Figure 1-428

Caution:
The scanning lamp heater is activated when the heater switch is turned on while the power plug is connected (regardless of whether the copier's power switch is off).

I. Cleaning

If the images tend to be soiled or copy paper tends to jam frequently, advise the user to clean the following parts:

1. If Images are Soiled

a. Copyboard Glass/Copyboard Cover
Wipe it with a moist cloth; then, dry wipe it. If the dirt cannot be removed, wipe it with a cloth moistened with mild detergent solution, and dry wipe it.

b. Cassette Pick-Up Roller
1) Remove the cassette.
2) Open the right cover.
3) Keep the separation pad down, wipe the cassette pick-up roller with a cloth moistened with alcohol or water* while rotating the roller in the direction of pick-up.
*Be sure to wring it well.

Caution:
Do not make copies until the cassette pick-up roller has dried completely.

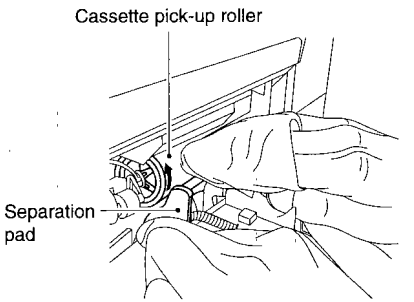


Figure 1-429

 COPYRIGHT © 1995 CANON INC. CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

c. Multi Pick-Up Roller

1) Lift the open/close lever to open the body.
2) Place one sheet of copy paper (A4) in the feeding path.
3) Keep the separation pad down, and wipe the multi pick-up roller with a cloth moistened with alcohol or water* while rotating the multi pick-up roller in the direction of pick-up.
*Be sure to wring it well.

Caution:

1. Do not touch the photo sensitive drum.
2. Do not make copies until the multi pick-up roller has dried completely.

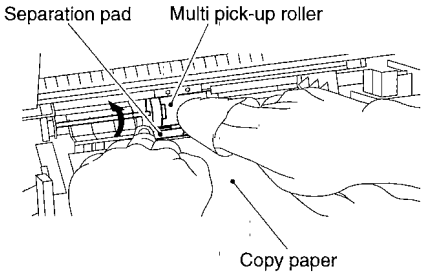


Figure 1-430

d. Feeding Belt (NP6012F/NP6212 only)

1) Wipe the feeding belt while moving it in the direction of the arrow with a cloth moistened with water; be sure to wring the cloth well.

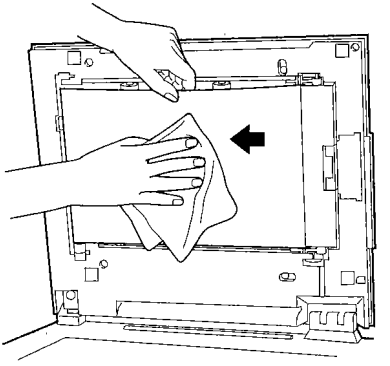


Figure 1-431

e. Separation Pad (NP6012F/NP6212 only)

1) Remove the ADF from the copier. (See IX. of CHAPTER 4 for the steps to follow.)
2) Detach the separation pad cover using a coin or the like.

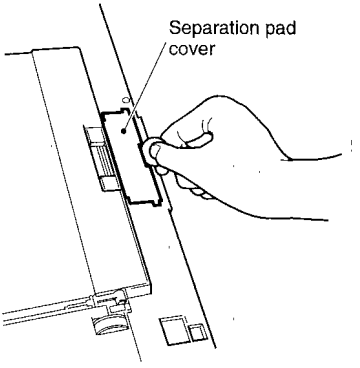


Figure 1-432

3) Remove the separation pad unit.

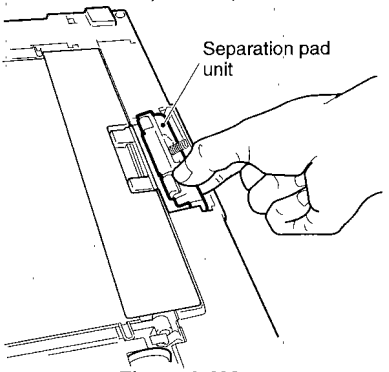


Figure 1-433

4) Dry-wipe the surface of the separation pad.

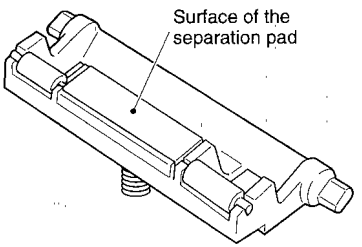


Figure 1-434

5) Install the separation pad unit while orienting it as indicated.

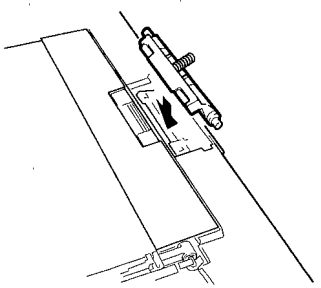


Figure 1-435

f. Pick-Up Roller

You must clean the pick-up roller whenever you have replaced the separation pad.

1) Remove the separation pad unit.
2) Wipe the pick-up roller while moving it in pick-up direction with a cloth moistened with alcohol or water; be sure to wring the cloth well before bringing it into contact with the roller.

Caution:
Do not make copies until the pick-up roller has dried copletely.

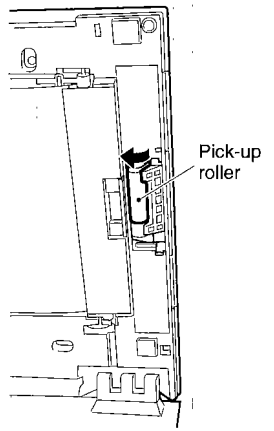


Figure 1-436

 COPYRIGHT © 1995 CANON INC. CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

2. Frequent Jams

a. Static Eliminator

1) Open the copyboard cover, and remove the static eliminator cleaner.

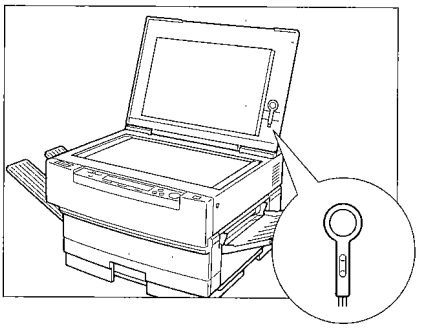


Figure 1-437(NP6012)

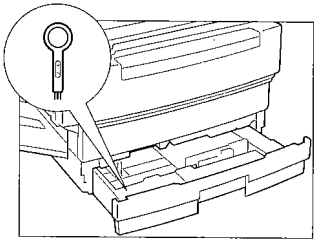


Figure 1-438(NP6012F/NP6212)

2) Shift up the open/close lever to open the body.

3) Clean the static eliminator with the static eliminator cleaner.

① Brush out any dirt (paper lint, for example) from the groove in the static eliminator.

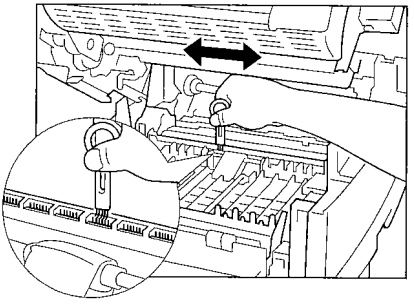


Figure 1-439

4) Close the body as soon as you have finished cleaning.

COPYRIGHT © 1995 CANON INC.

J. Points to Note When Closing the Top Unit

Make sure of the following three points before closing the top unit.

1. The drum unit has been installed, and the drum unit lever is at the LOCK position.

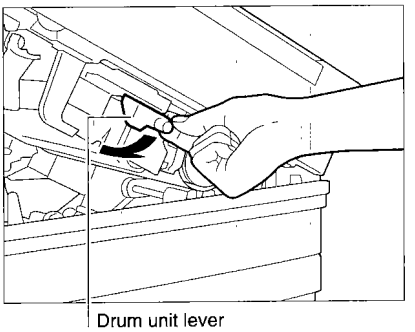


Figure 1-440

2. The toner cartridge has been turned and positioned as specified.

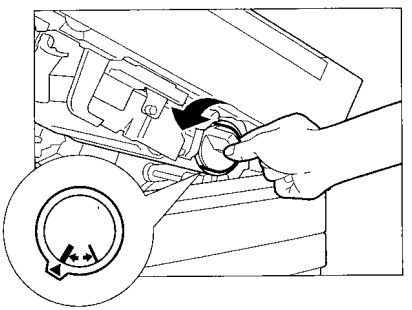


Figure 1-441

3. The fixing lever is at the LOCK position.

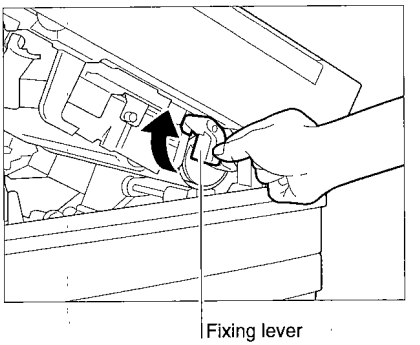


Figure 1-442

Unless the above three points are satisfied, the lock mechanism will activate, preventing the top unit from closing.

COPYRIGHT © 1995 CANON INC.

I. IMAGE FORMATION

A. Outline

The copier uses a direct charging/transfer system with each component block arranged as shown in Figure 2-101.

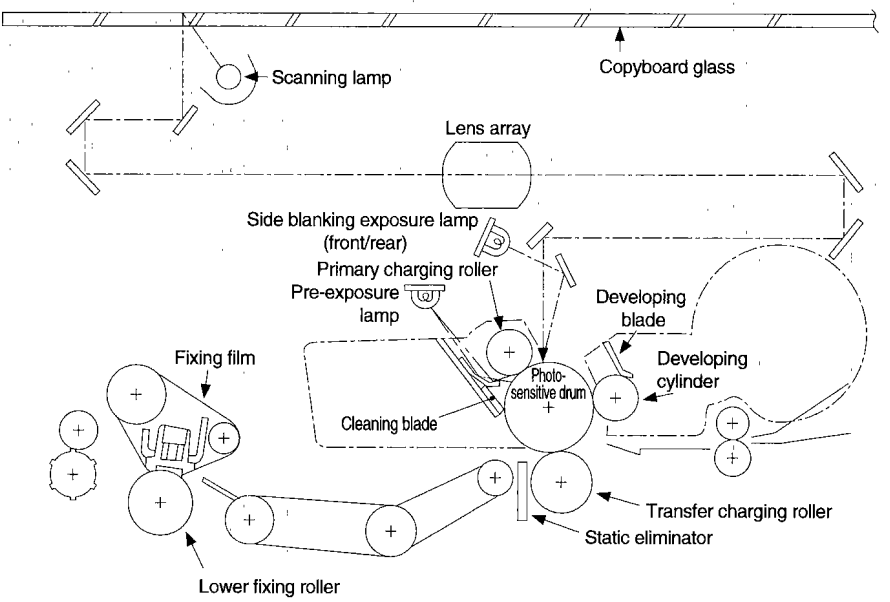


Figure 2-101

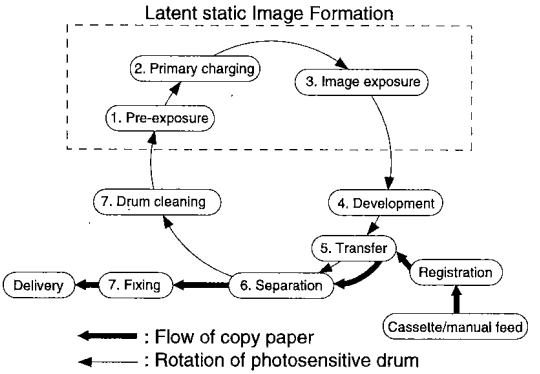


Figure 2-102

COPYRIGHT © 1995 CANON INC.

The copier's image formation block consists of the following steps; see the descriptions for each step given under its respective heading:

Step 1: pre-exposure
Step 2: primary charging (-)
Step 3: image exposure
Step 4: development (AC + DC bias)
Step 5: transfer (-)
Step 6: separation (+)
Step 7: fixing
Step 8: drum cleaning

The photosensitive drum consists of two layers: the outer layer being a photoconductive layer made of organic photoconductor (OPC) and inner layer, a substrate made of aluminum (conductor).

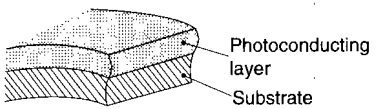


Figure 2-103

B. Static Latent Image Formation Block

The static latent image formation block consists of tow steps: primary charging and image exposure. At the end of this block, the areas on the photosensitive drum corresponding to the black areas of the original are left with negative charges and those corresponding to the white areas of the original are rid of negative charges.

These images created by negative charges are not visible to the human eye and, therefore, are called static latent images.

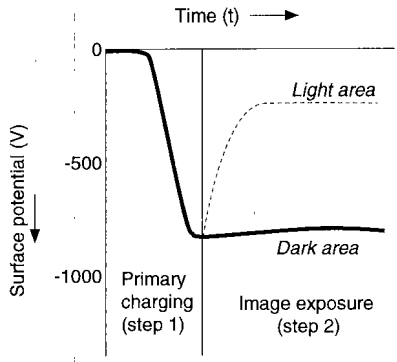


Figure 2-104

COPYRIGHT © 1995 CANON INC.
CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

C. Pre-Exposure (step 1)

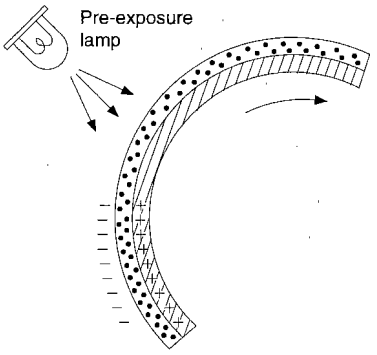


Figure 2-105

Prior to primary charging, the light of the pre-exposure lamp is directed to the surface of the photosensitive drum for pre-exposure, thereby removing the residual charges from the surface of the photosensitive drum to prevent uneven copy density.

D. Primary Charging (step 2)

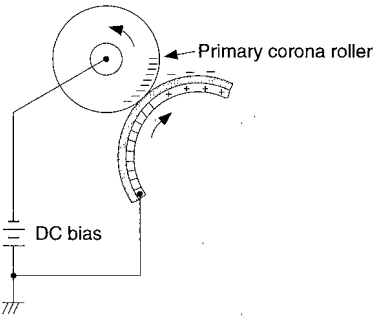


Figure 2-106

The surface of the photosensitive drum is charged to a uniform negative potential in preparation for the formation of static latent images.

The copier uses its primary charging roller to directly charge the photosensitive drum (primary charging).

The primary charging roller is made of conducting rubber, and a DC bias is applied to the roller.

Reference:

A direct charging system provides such advantages as low application voltage and generates little, if any, ozone.

COPYRIGHT © 1995 CANON INC.

E. Image Exposure (step 3)

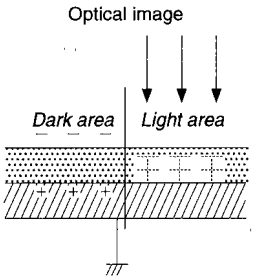


Figure 2-107

In this step, the optical image of the original is projected to the photosensitive drum to neutralize the charges in the light area.

F. Development (step 4)

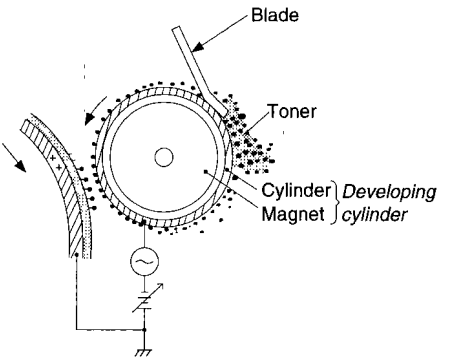


Figure 2-108

As shown in Figure 2-108, the developing assembly consists of a rubber blade and a developing cylinder constructed of a fixed magnet and a cylinder that rotates around it. The copier's toner is a one-component toner made mostly of magnetite and resins. The toner has insulating characteristics and becomes positively charged by the friction between the rotating cylinder and the blade.

The toner is moved between the rotating developing cylinder and a blade, where it is charged to a positive potential and deposited on the developing cylinder in a thin, uniform layer.

The developing cylinder receives both AC bias and DC bias (negative component) at the same time; the resulting bias is called *developing bias*. For this reason, the negative component of the developing bias is greater than the positive component.

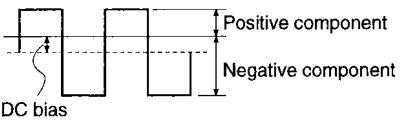


Figure 2-109

COPYRIGHT © 1995 CANON INC.

During copying, the toner is attracted to the photosensitive drum by the photosensitive drum surface potential and the development bias (positive component), thus turning the static latent image into a visible image. Any excess toner is repelled by the photosensitive drum by the photosensitive drum surface potential and the developing bias (negative component).

A DC bias affects copy density and the degree of fogging; the higher, i.e., closer to 0 V, it is, the darker the images will be—however, with an increased tendency toward fogging.

G. Transfer (step 5)

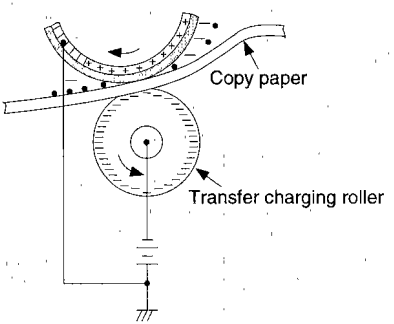


Figure 2-110

A negative voltage is applied to the back of copy paper to transfer toner from the surface of the transfer drum to the copy paper.

The copier uses a roller transfer system, which has the following advantages when compared with the conventional corona transfer system:

- Generates virtually no ozone.
- Provides good feeding, since copy paper is retained by both the transfer charging roller and the photosensitive drum.

Reference:

Toner may collect on the transfer roller if the image on the photosensitive drum fails to transfer to the copy paper because of a jam or the like.

The copier turns the transfer voltage to positive during initial rotation, while the scanner is moving in reverse, and during post rotation to return the positively charged toner adhering to the transfer roller to the photosensitive drum.

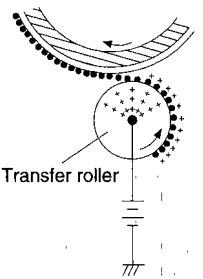


Figure 2-111

H. Separation (step 6)

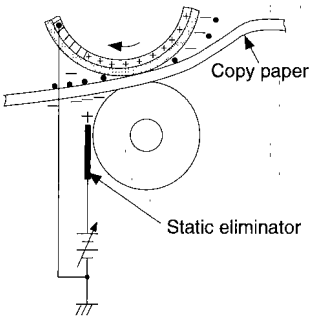


Figure 2-112

Copy paper is separated from the photosensitive drum using the rigidity of the paper. Thin paper, however, has low rigidity and can wrap around the photosensitive drum. To prevent such a problem, the copier applies a positive voltage to the separation static eliminator to weaken the static attraction between the photosensitive drum and copy paper, thereby facilitating separation.

I. Fixing (step 7)

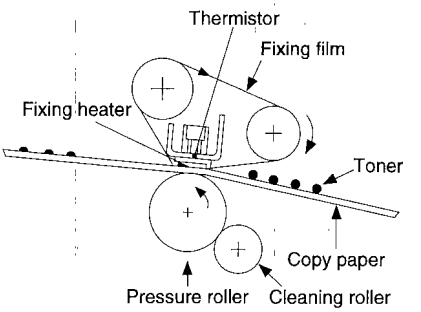


Figure 2-113

After transfer, the toner image is fixed to the paper while the copy paper moves through the fixing film and the pressure roller.

The fixing film has a seamless construction and is made of special material so that melting toner will not stick to the film—further, the surface of the pressure roller is cleaned by a cleaning roller.

The fixing heater is a flat heater and heats only the area where the fixing film comes into contact; this design eliminates the need for warm-up time.

The temperature of the fixing heater is monitored by the thermistor (TH1) located more or less at the center of the fixing heater and serves to make sure that the heater is controlled to a specific temperature.

COPYRIGHT © 1995 CANON INC.
CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

J. Drum Cleaning (step 8)

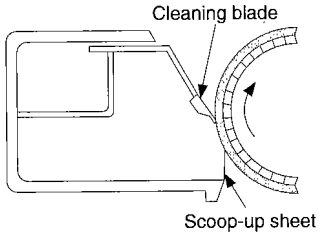


Figure 2-114

In preparation for the next copy run, the cleaning blade scrapes off the residual toner from the photosensitive drum by way of cleaning the photosensitive drum surface. The scoop-up sheet then is used to collect such toner.

COPYRIGHT © 1995 CANON INC.

II. AUXILIARY PROCESS

1. Side Blank Exposure

Side blank exposure is used to prevent adhesion of excess toner to the drum by removing the residual potential in the non-image areas (front, rear) of the drum. See p. 3-35 for details.

2. Nip Exposure

In nip exposure, part of the light from the pre-exposure lamp is directed to the area where the photosensitive drum is in contact with the primary charging roller, thereby ensuring the stability of primary charging.

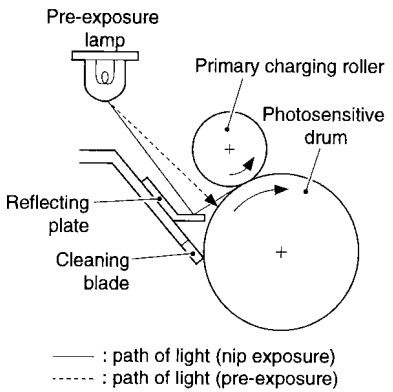


Figure 2-115

COPYRIGHT © 1995 CANON INC.
CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

I. BASIC OPERATION

A. Functional Construction

The copier can roughly be divided into four functional blocks: namely, pick-up/feeding, exposure, image formation, and control.

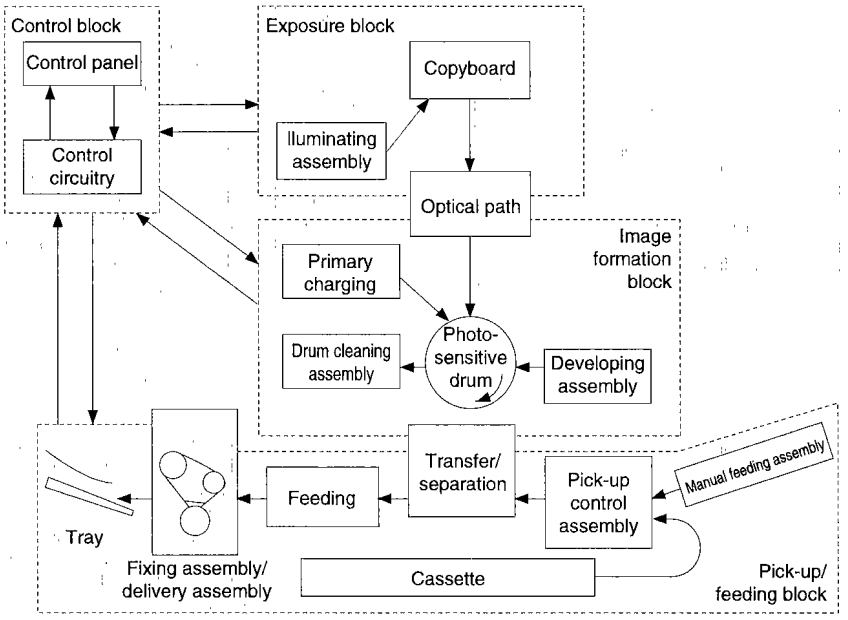


Figure 3-101

COPYRIGHT © 1995 CANON INC.

B. Electrical Circuitry

The copier's major electrical control mechanisms are driven by the microprocessor on the DC controller PCB. The microprocessor reads input signals from the sensors and the operation keys in response to the instructions of the program stored in advance and generates signals used to drive such loads as motors, solenoids, and lamps.

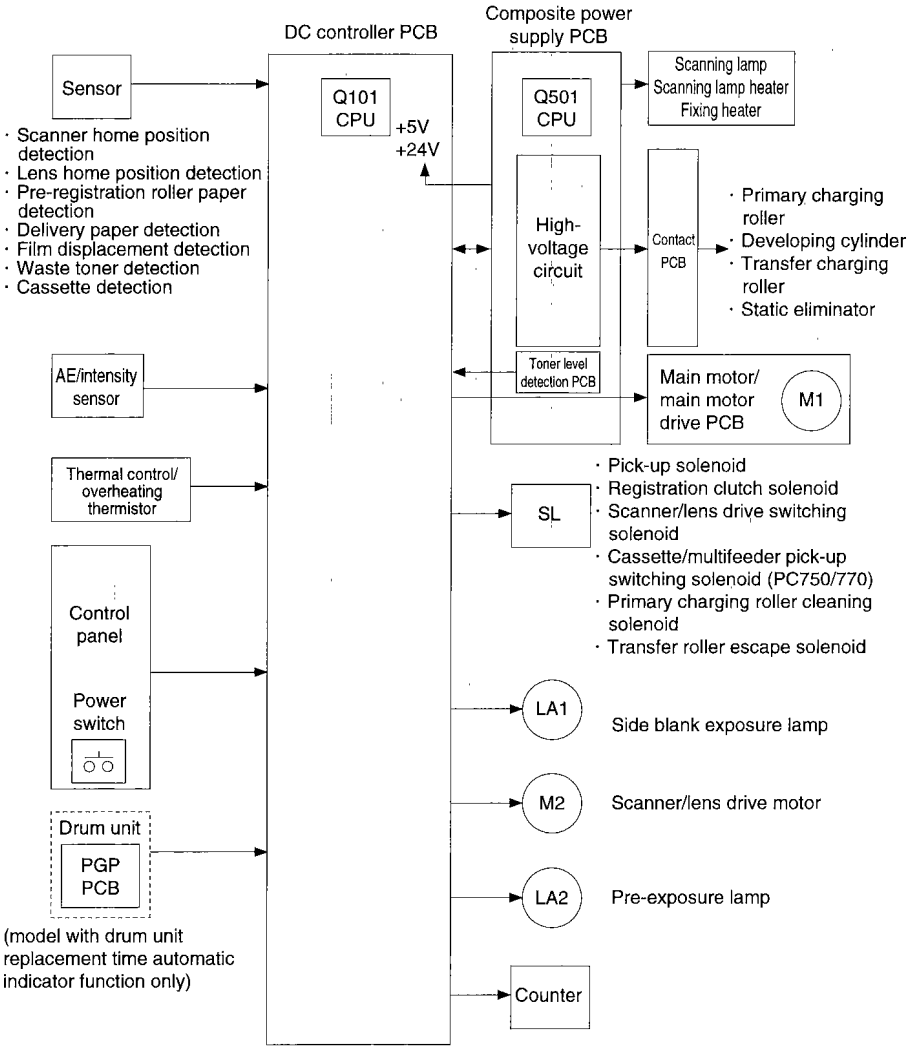


Figure 3-102

COPYRIGHT © 1995 CANON INC.
CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

C. Inputs to and Outputs from the DC Controller

1. Inputs to the DC Controller (1/2)

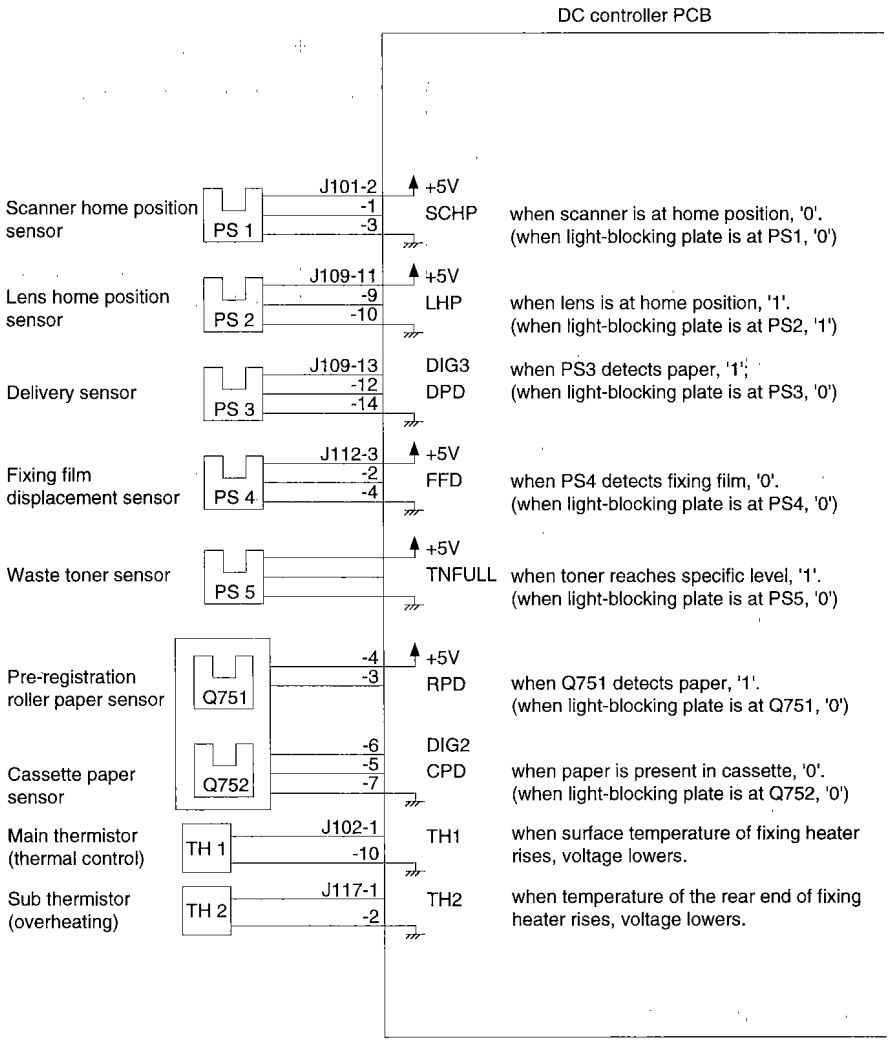


Figure 3-103

COPYRIGHT © 1995 CANON INC.

2. Inputs to the DC Controller (2/2)

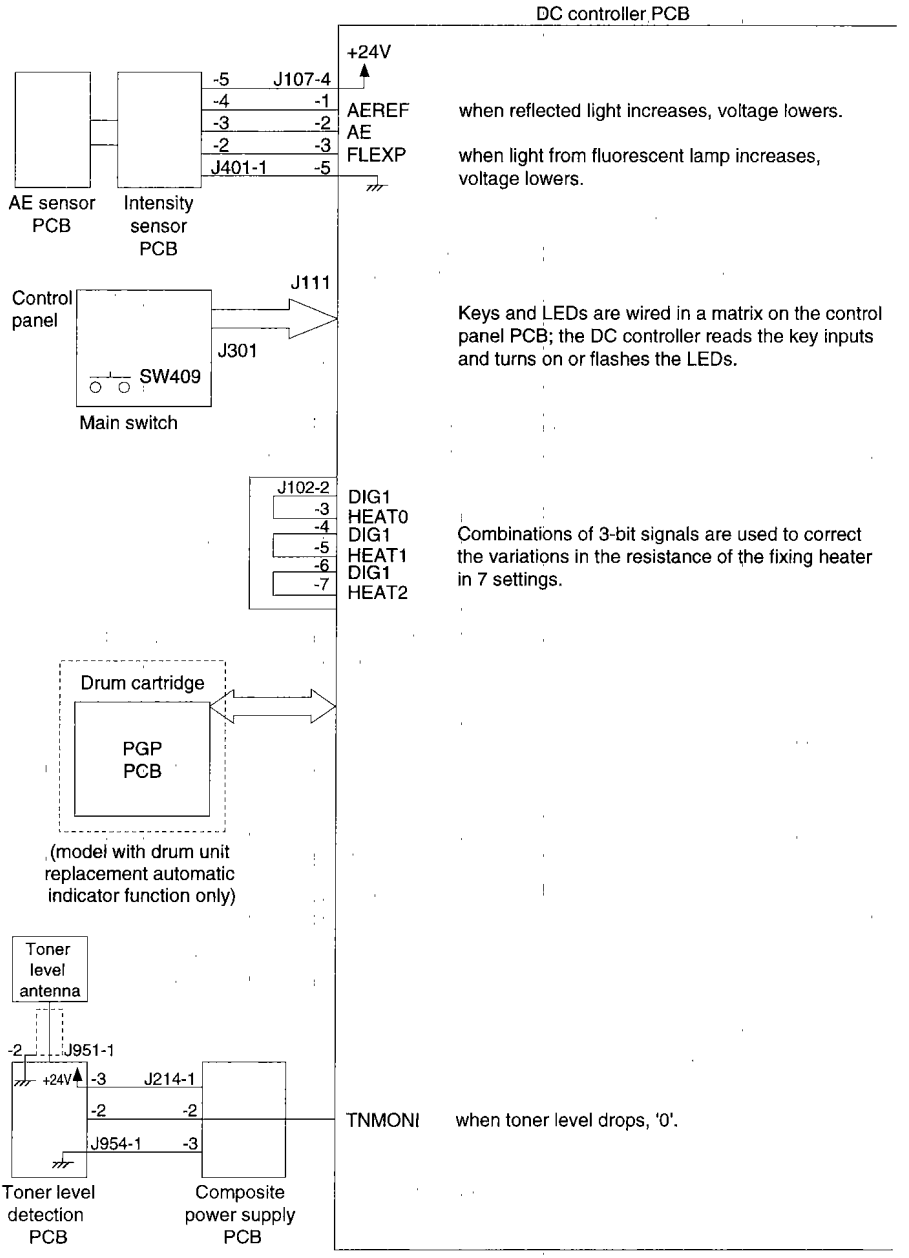


Figure 3-104

COPYRIGHT © 1995 CANON INC.
CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

D. Outputs from the DC Controller

1. Outputs from the DC Controller(1/2)

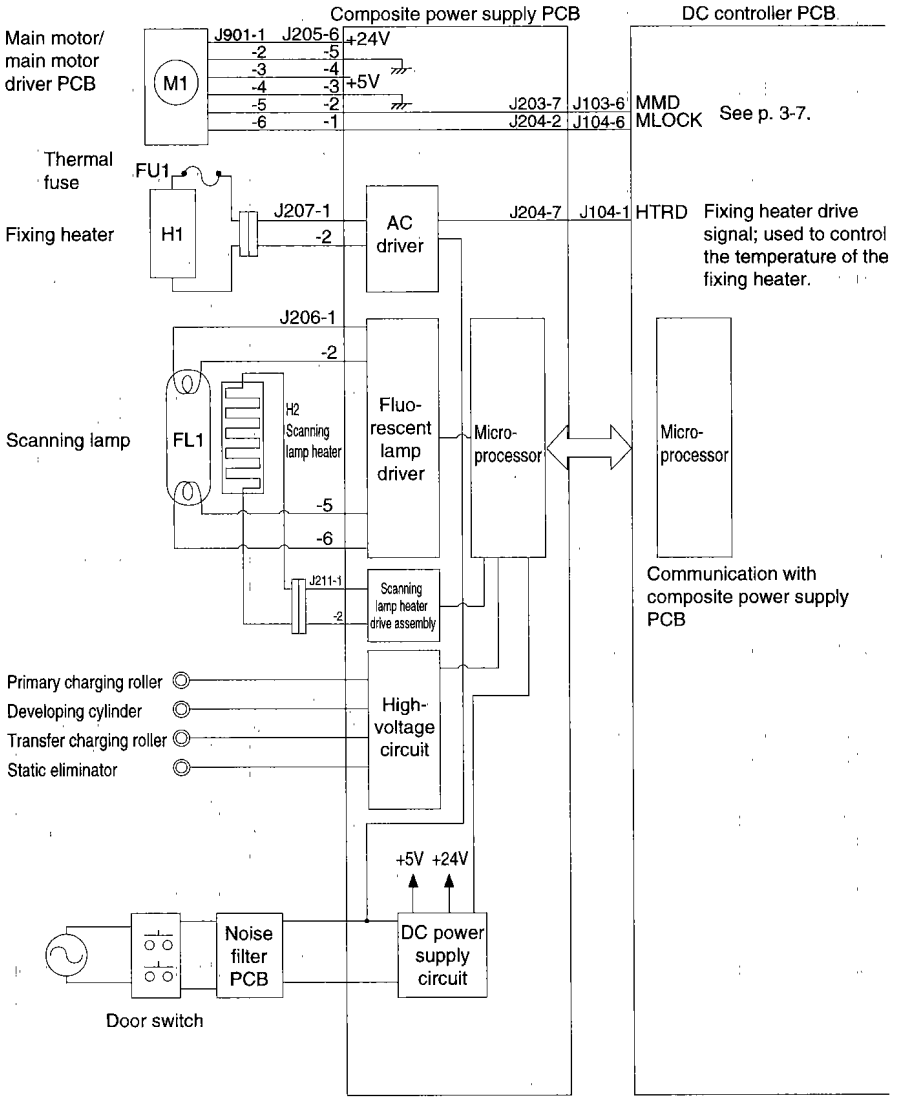


Figure 3-105

COPYRIGHT © 1995 CANON INC.

2. Outputs from the DC Controller (2/2)

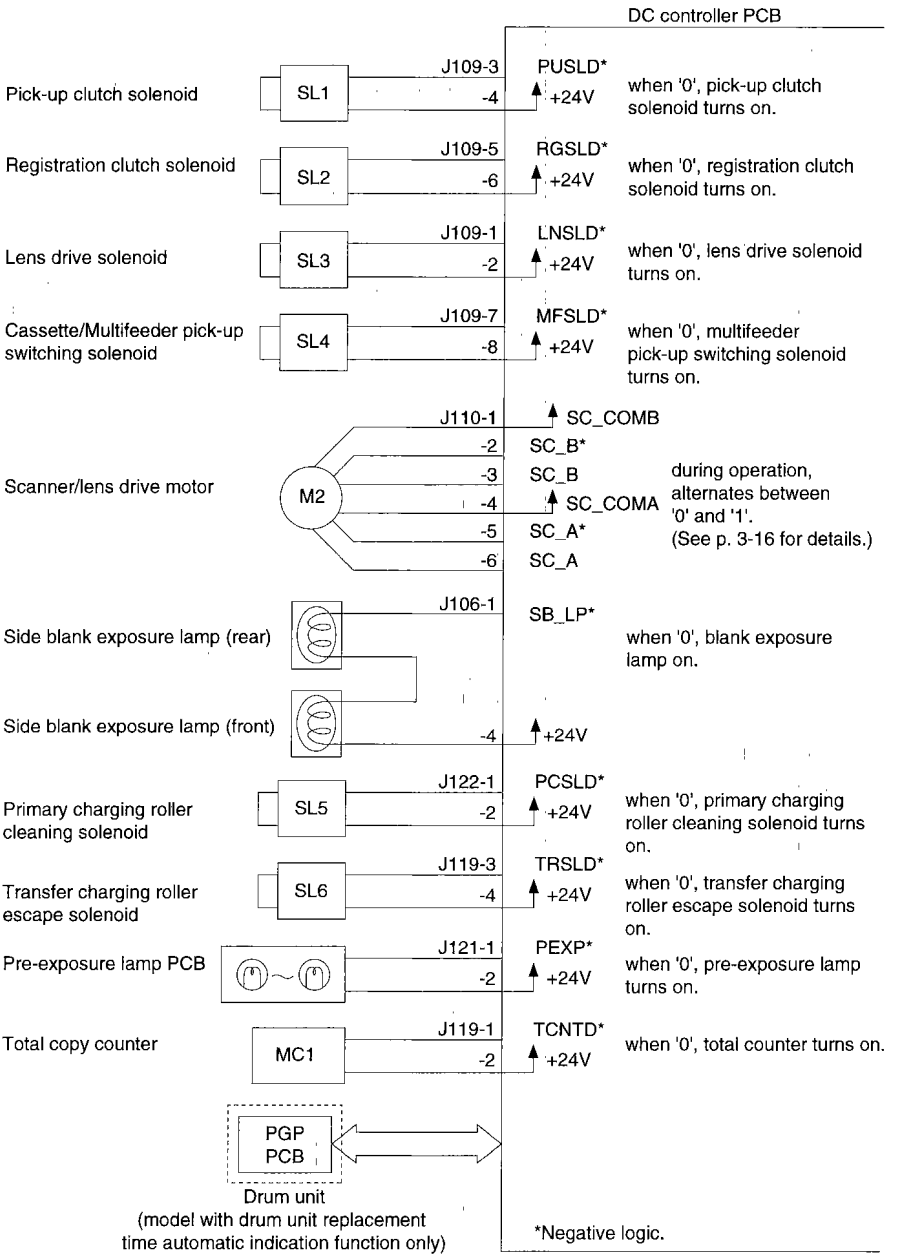


Figure 3-106

COPYRIGHT © 1995 CANON INC.
CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

E. Main Motor Control Circuit

1. Outline

Figure 3-107 shows the circuit that controls the main motor (M1); the circuit has the following functions:

① turns on and off the main motor.
② controls the rotation of the main motor to a specific revolution.

The main motor (M1) is a DC motor with a built-in clock pulse generator. When the motor rotates, clock pulse signals (MMCLK) are generated according to the revolution of the motor. The speed control circuit matches the phases of the frequency of these clock pulses and the frequency of the reference signal to control the rotation of the main motor (M1) to a specific revolution.

2. Operation

When the main motor drive signal (MMD) from the DC controller circuit goes '1', the drive circuit of the motor driver turns on, thereby rotating the main motor (M1) at a specific revolution.

While the main motor is rotating at a specific revolution, the main motor driver PCB sends the speed state signal (MLOCK=0) to the DC controller PCB. If, for some reason, fluctuations occur in the rotation of the main motor, the MLOCK signal goes '1'.

If MLOCK=1 continues about 1 sec while the main motor drive signal (MMD) is '1', the DC controller identifies an error in the main motor, stops the main motor and, at the same time, indicates 'E010' on the display.

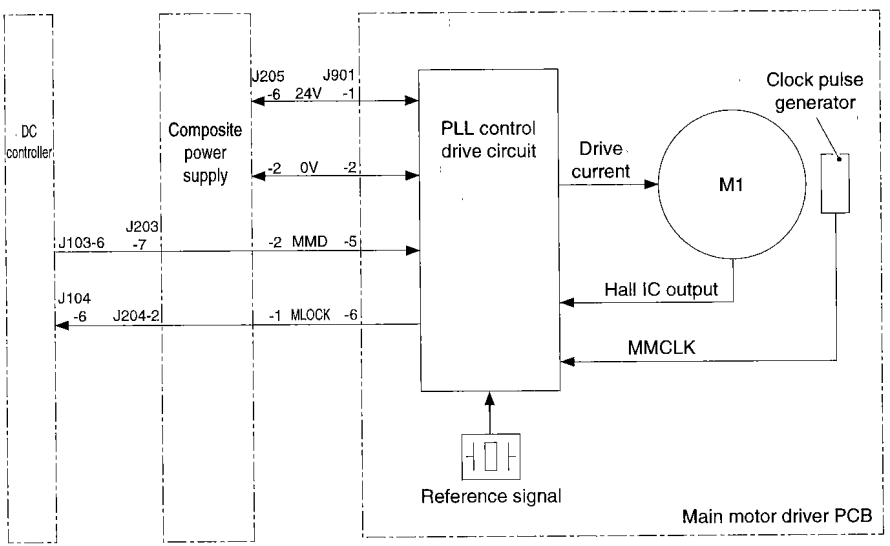
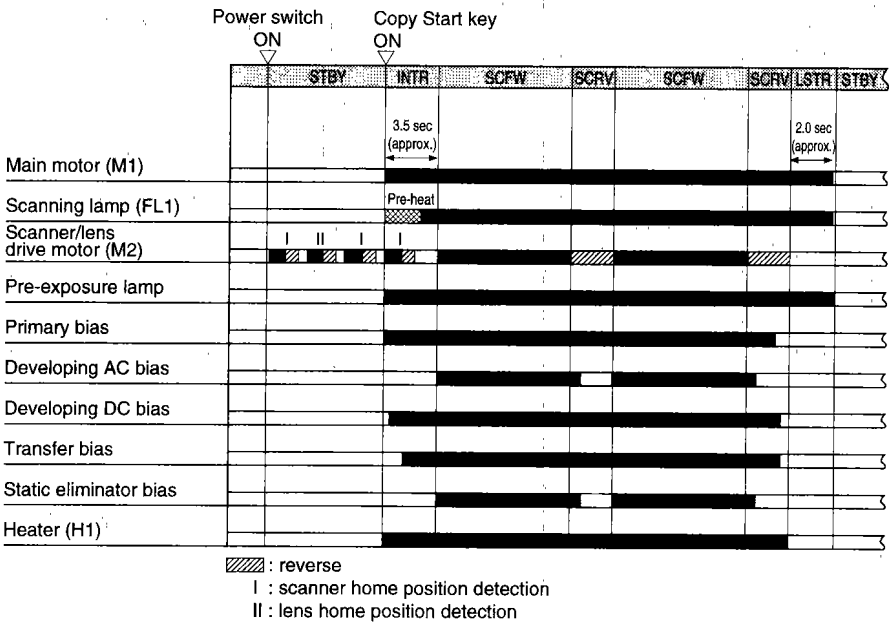


Figure 3-107

F. Basic Sequence of Operations (DIRECT, 2 copies, continuous)

1. Copy Start Key On 3.2 Sec (approx.) After Power-On



▨ : reverse
I : scanner home position detection
II : lens home position detection

Figure 3-108

COPYRIGHT © 1995 CANON INC.
CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

2. Copy Start Key On Immediately After Power-On (less than 3.2 sec)

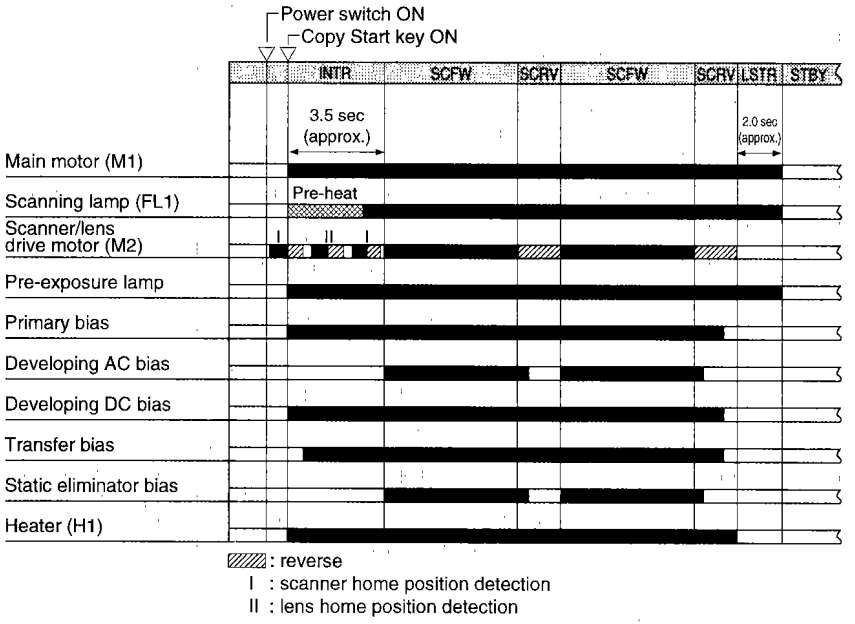


Figure 3-109

	Period	Description	Remarks
STBY (standby)	• Between when the power switch is turned on and when the Copy Start key is pressed. • Between when LSTR is over and when the Copy Start key is pressed.	Waits until the Copy Start key becomes valid.	
INTR (initial rotation)	For about 3.5 sec after the Copy Start key is pressed.	• Removes the residual charges from the photo-sensitive drum and stabilizes the sensitivity of the photo-sensitive drum in preparation for cpying operation. • Pre-heats the scanning lamp and makes preparations until the drive intensity becomes stabilized.	The pick-up signal is generated, and the first sheet of copy paper is picked up.
SCFW (scanner forward)	While the scanner is moving forward. • The distance traveled forward varies depending on the copy paper size and reproduction ratio. • The speed of forward travel varies depending on the reproduction ratio.	The scanning lamp illuminates the original, and the reflected optical image is projected on the photosensitive drum by way of mirrors and lenses.	The registration signal is generated, and the copy paper is moved to the transfer assembly.
SCRV (scanner reverse)	While the scanner is moving in reverse. • The speed of reverse travel is about 3.4 times as fast as forward travel in DIRECT.	The scanner is returned to the home position in preparation for the next copy run.	If in continuous mode, the pick-up signal is generated, and copy paper is picked up.
LSTR (last rotation)	For about 1 sec after SCRV for the last copy is over.	The last copy paper is discharged.	

Table 3-101

COPYRIGHT © 1995 CANON INC.

II. EXPOSURE SYSTEM

A. Varying the Reproduction Ratio

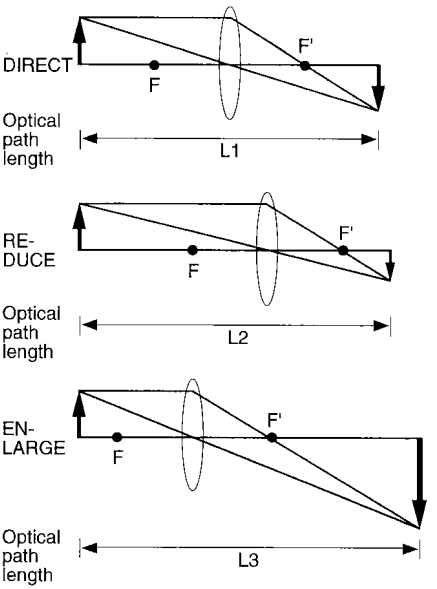
The reproduction ratio in the direction of the drum axis is varied by the lens drive system and that around the drum, by the scanner drive system.

The lens drive system holds a lens array and changes the location of the lens and the optical path length as shown in Figure 3-201 to vary the reproduction ratio in the direction of the drum axis; the length of the optical path is changed by moving the No. 4 and No. 5 mirror units as shown in Figure 3-202.

The scanner drive system changes the reproduction ratio around the drum by moving the No. 1 mirror faster (reduction) or slower (enlargement) relative to the peripheral speed of the drum.

Reference:

1. In DIRECT, the speed at which the No. 1 mirror is moved is the same as the peripheral speed of the drum.
2. The length of the optical path is longer in both REDUCE and ENLARGE than in DIRECT.



Optical path: L1< L2, L1< L3

Figure 3-201

COPYRIGHT © 1995 CANON INC.

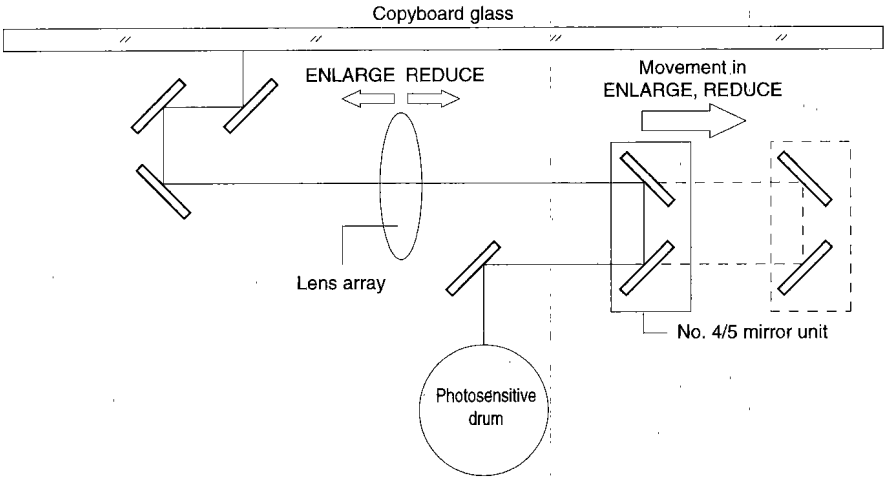


Figure 3-202

COPYRIGHT © 1995 CANON INC.
CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

B. Lens Drive System

1. Outline

The lens drive system is driven by the scanner motor (M2). When the lens solenoid (SL3) turns on, the switching gear is pushed in the direction of the arrow ⇨. When the scanner motor rotates in reverse (↖) in this condition, the lens unit moves in REDUCE direction by the work of gears and lens cable.

At the same time, the No. 4/5 mirror unit moves according to the travel (reproduction ratio) of the lens unit, changing the length of the optical path.

At this time, the side blank exposure lamp also moves in relation to the lens to perform black erasure at the front and the rear.

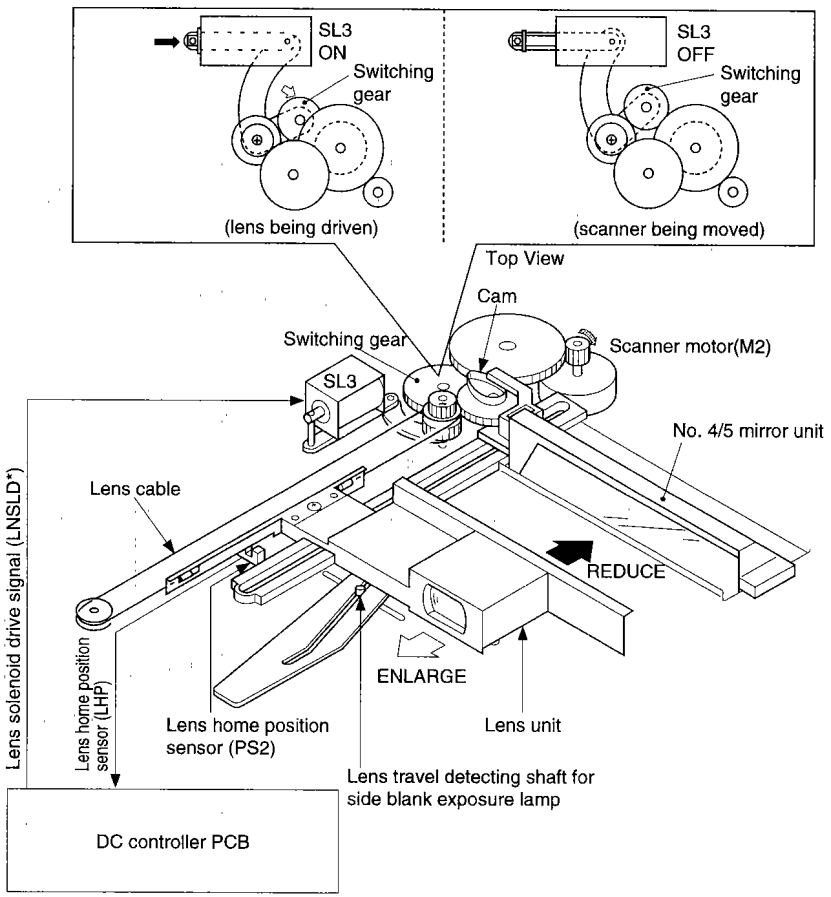


Figure 3-203

COPYRIGHT © 1995 CANON INC.

C. Scanner Drive System

1. Outline

The scanner drive system is driven by the scanner motor (M2), which changes its direction of rotation so that the scanner moves forward or in reverse. The revolution at which the scanner is moved forward changes continuously according to the selected reproduction ratio, and the revolution at which the scanner is moved in reverse remains constant regardless of the selected reproduction ratio (about 3.4 times as fast as in forward in DIRECT).

The distance over which the scanner travels varies according to the length of copy paper and the selected reproduction ratio.

The scanner motor drives the lens drive system in addition to the scanner system.

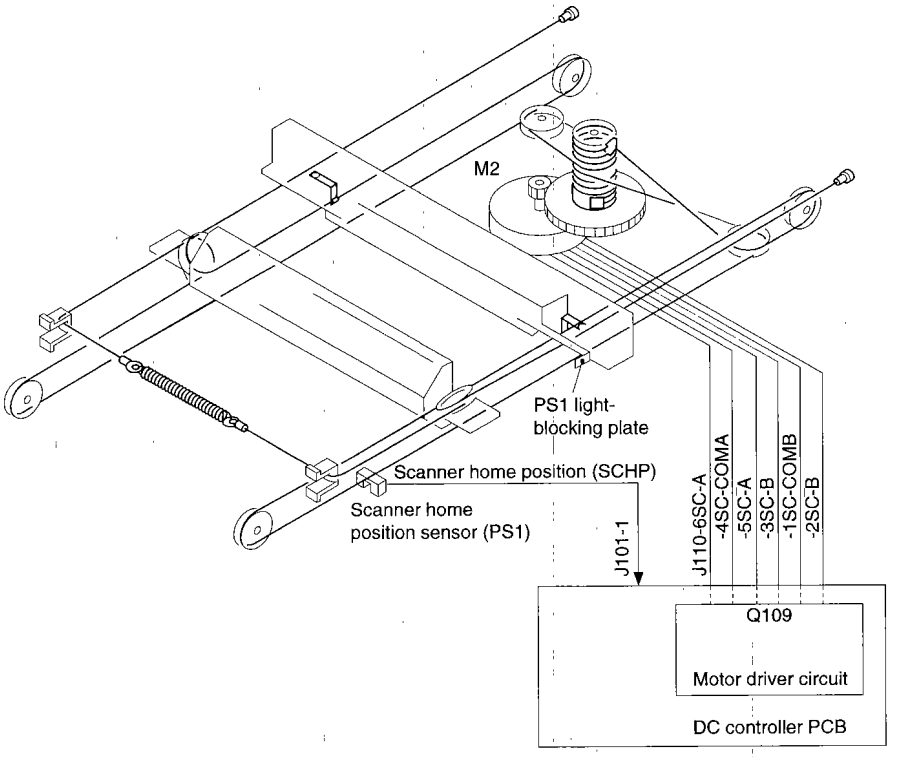


Figure 3-204

 COPYRIGHT © 1995 CANON INC. CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

2. Relationship between the Scanner Sensor and Signals

Scanner sensor	Signal	Scanner		Description
		Forward	Reverse	
Scanner home position sensor (PS1)	SCHP			Reference used to determine the forward travel distance.
				The scanner stops traveling in reverse in 0.1 sec.

Table 3-201

3. Basic Sequence of Scanner Operations

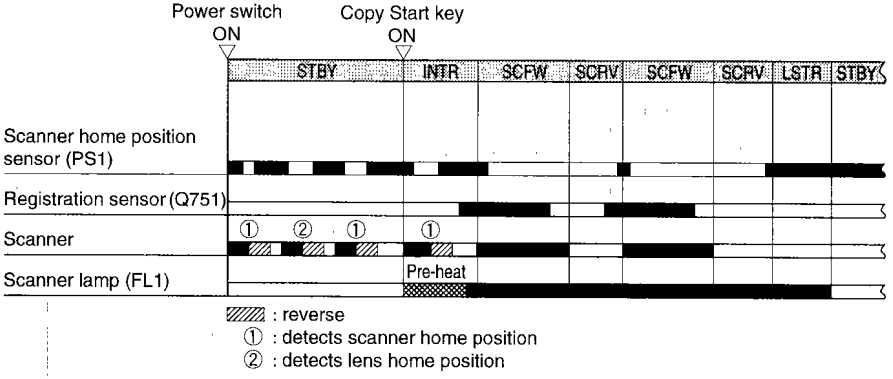


Figure 3-205

The microprocessor on the DC controller PCB controls the forward travel distance of the scanner with reference to the rising edge of the scanner home position signal. The forward travel distance varies depending on the length of copy paper* and the selected reproduction ratio in ENLARGE: if the ratio is less than 130%, the scanner is moved forward for A4 (297 mm); if the ratio is 130% or more, the scanner is moved for LTR (279 mm).

*For a discussion of how the length of copy paper is checked, see p. 3-49.

COPYRIGHT © 1995 CANON INC.

4. Driving the Scanner/Lens Drive Motor

a. Outline

The scanner/lens drive motor (M2) is a 4-phase stepping motor. It is turned on or off and its direction and speed of rotation is changed by controlling the output timing of the drive power supply SC-COMA and SC-COMB and pulse signals A, A*, B, and B*.

b. Operation

The microprocessor (Q101) on the DC controller PCB receives such instructions as copying modes and reproduction ratios from the control panel circuit; and, in response, it sends drive pulses to the scanner motor (M2) through the motor drive circuit.

The scanner/lens drive motor is a 4-phase stepping motor, and controls the direction and speed of scanning by changing the frequency and the sequence of drive pulses (SC-A through SC-B*).

The motor drive voltage on/off switching circuit supplies power to drive the motor and removes power to stop it. The current switching circuit sets the current flowing to the motor according to the speed of rotation; the motor driver circuit is used to control the rated current according to the setting.

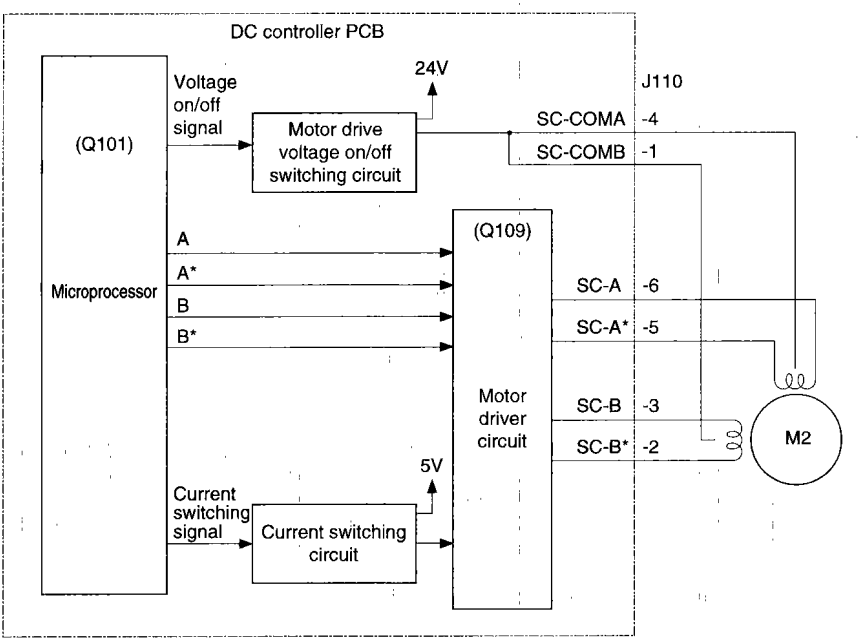


Figure 3-206

COPYRIGHT © 1995 CANON INC.

III. IMAGE FORMATION SYSTEM

A. Outline

The copier's image formation system performs the following functions:

- controls the pre-exposure lamp.
- controls the scanning lamp.
- controls the primary/transfer corona current.
- controls the developing bias.
- measures the density of the original.
- controls side blank exposure.

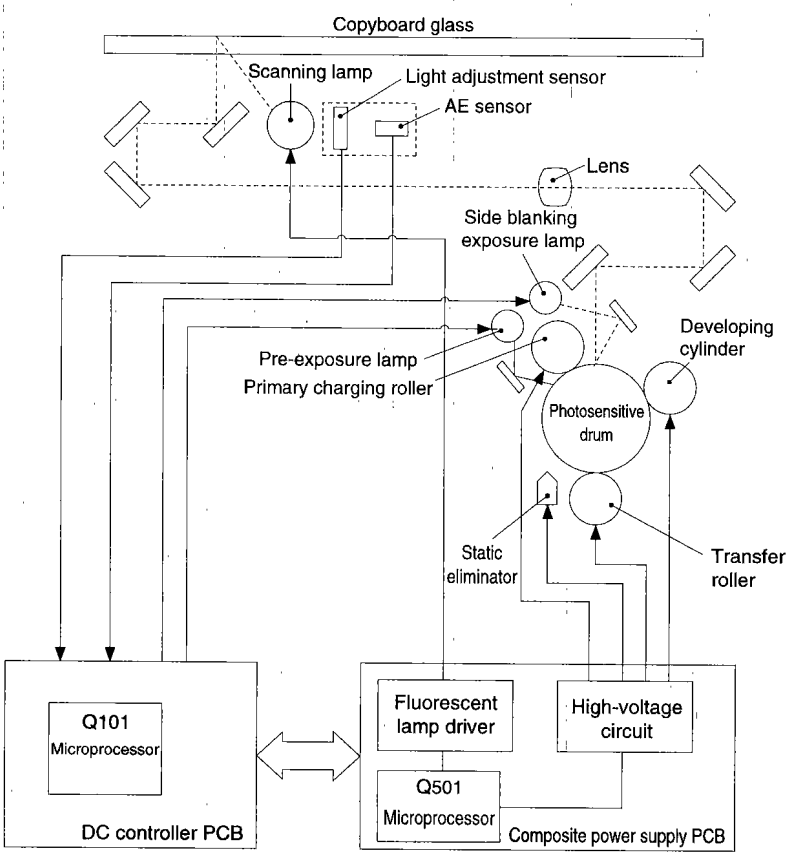


Figure 3-301

COPYRIGHT © 1995 CANON INC.

B. Sequence of Operations (image formation system)

DIRECT, 2 Copies, Continuous

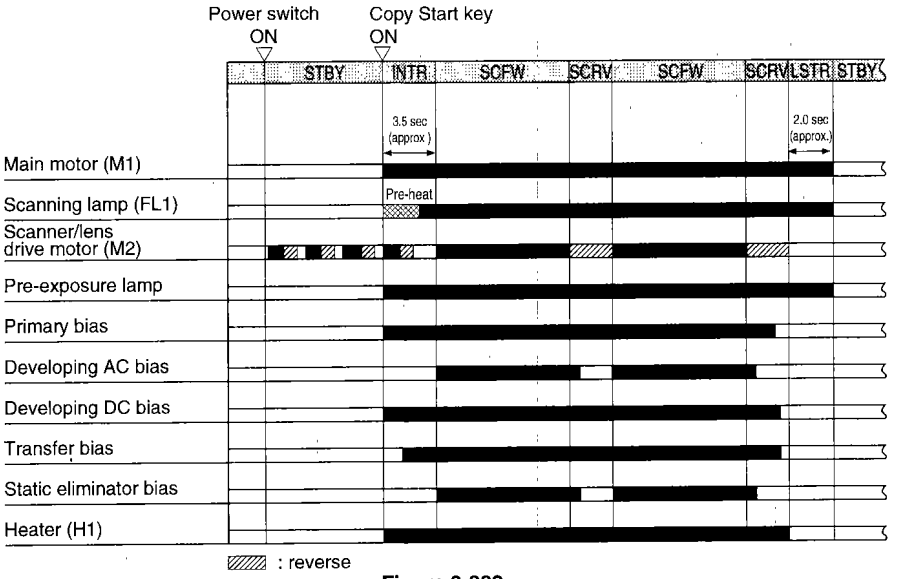


Figure 3-302

DIRECT, 2 Copies, Continuous; Copy Start key pressed immediately after power-on

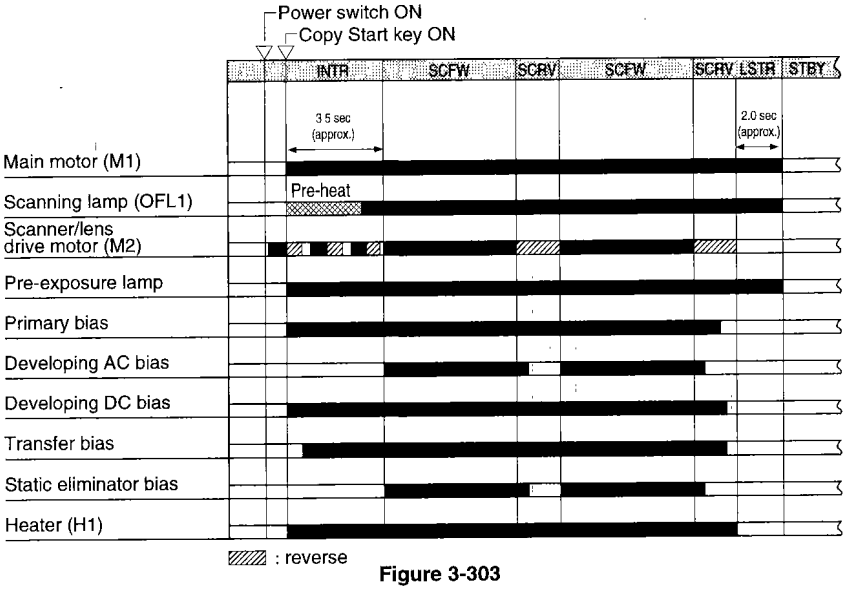


Figure 3-303

COPYRIGHT © 1995 CANON INC.
CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

C. Controlling the Pre-Exposure Lamp

1. Outline

The intensity of the pre-exposure lamp must remain constant at all times during APVC measurement and to ensure stable image reproduction (primary charging). To ensure stable intensity, the copier corrects variations among individual pre-exposure lamps and fluctuations in the drive voltage.

2. Operation

The PWM reference value used to determine the intensity of the pre-exposure lamp is stored in the CPU on the DC controller PCB.

The CPU on the DC controller PCB detects the voltage used to drive the pre-exposure lamp and corrects the PWM reference value so that the pre-exposure lamp may be driven at a specific intensity.

Reference:

You must enter the PWM reference value (PREX_LP) in service mode whenever you have replaced the pre-exposure lamp.

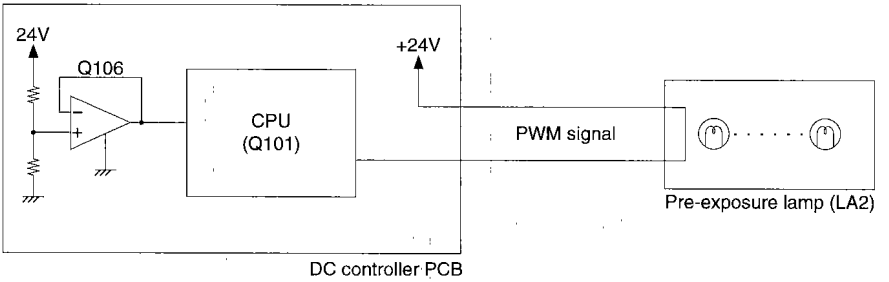


Figure 3-304

D. Controlling the Scanning Lamp

1. Outline

Figure 3-305 shows the circuit that controls the scanning lamp (fluorescent lamp; FL1); the circuit has the following functions:

- controls pre-heating of the scanning lamp.
- turns on and off the scanning lamp.
- controls the intensity of the scanning lamp.
- automatically corrects the intensity of the scanning lamp.

The copier's scanning lamp is a fluorescent lamp.

When not controlled, the fluorescent lamp tends to be dark immediately after it is turned on, glowing brighter only gradually; moreover, its intensity does not stabilize for some time if its ambient temperature is low.

In consideration of these characteristics of the fluorescent lamp, the copier is equipped with an intensity sensor so that the originals may be illuminated only after the intensity of the fluorescent lamp has stabilized.

The copier does not start copying operation until the intensity of the fluorescent lamp has been checked and verified that it has reached a specific value.

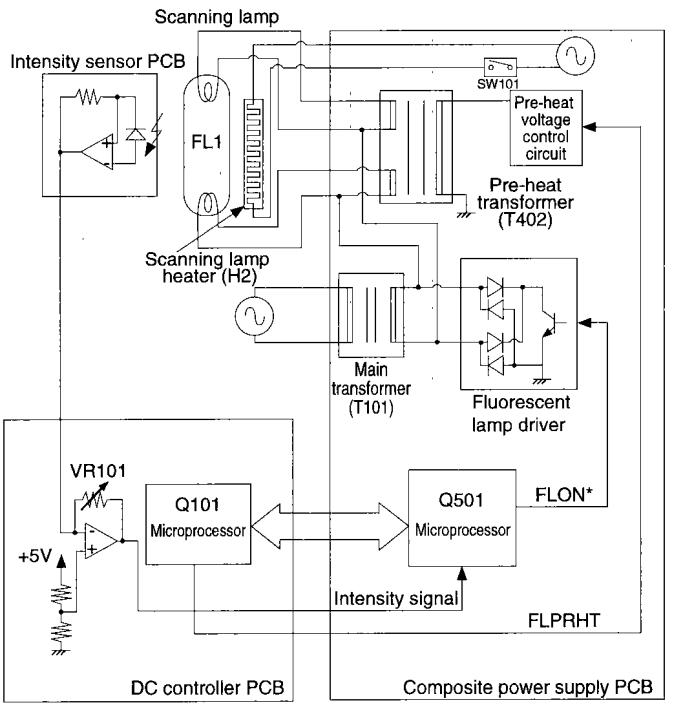


Figure 3-305

COPYRIGHT © 1995 CANON INC.
CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

2. Controlling the Scanning Lamp for Pre-Heating

Pre-heating is controlled for the following:

- before the scanning lamp turns on.
- while the scanning lamp remains on.

a. Controlling Pre-Heating before the Scanning Lamp Turns On

When the Copy Start key is pressed, the microprocessor (Q101) on the DC controller PCB sends the pre-heating voltage control signal (FLPRHT) to the pre-heating voltage control circuit on the composite power supply PCB. In response, the pre-heating voltage control circuit supplies 4 Vrms (effective value) to the filament of the scanning lamp.

About 3 sec later, the microprocessor on the DC controller causes the pre-heating voltage control signal (FLPRHT) to go '0', to end the pre-heating operation executed before the scanning lamp turns on.

b. Controlling Pre-Heating While the Scanning Lamp Remains On

While the scanning lamp remains on, the microprocessor (Q501) on the composite power supply PCB sends the duty ratio of the on control signal to the microprocessor (Q101) on the DC controller PCB. In response, the microprocessor (Q101) on the DC controller sends the pre-heating control signal (FLPRHT) to the pre-heating voltage control circuit to execute pre-heating control suited to the duty ratio of the on control signal for pre-heating control.

Reference:

Activation of the Fluorescent Lamp

The fluorescent lamp repeats turning on and off in specific cycles. While it is off, voltage is applied to its filament so that it will turn on smoothly, and the period during which such a voltage is being applied is called pre-heating period.

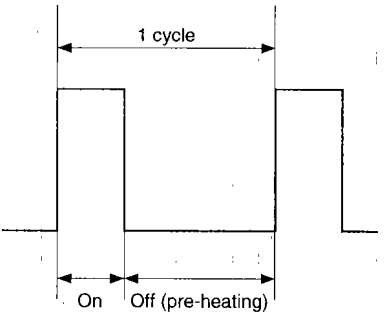


Figure 3-306

The intensity of the fluorescent lamp changes within a single cycle depending on how long the lamp remains on:

- longer on time ➡ higher intensity
- shorter on time ➡ lower intensity

The ratio of on time within a single cycle is called duty ratio, and may be expressed by the following formula:

$$\text{Duty ratio} = \frac{\text{ON time}}{\text{1 cycle}}$$

- higher duty ratio ➡ increased intensity
- lower duty ratio ➡ decreased intensity

COPYRIGHT © 1995 CANON INC.

3. Turning On and Off the Scanning Lamp

a. Outline

When pre-activation pre-heating is over, the microprocessor (Q101) on the DC controller PCB instructs the microprocessor (Q501) on the composite power supply PCB to generate the scanning lamp on signal (FLAON*). At this time, the fluorescent lamp driver circuit operates to apply the output of the primary side of the main transformer (T102) to both ends of the scanning lamp so as to turn on the scanning lamp at a high frequency.

4. Controlling the Intensity of the Scanning Lamp

a. Outline

The intensity of the scanning lamp is controlled by the microprocessor (Q501) on the composite power supply PCB.

The intensity sensor checks the intensity of the scanning lamp and generates activation power to suit the intensity. The microprocessor, on the other hand, finds out the intensity of the scanning lamp based on the activation power to send the scanning lamp on signal (FLON*) to the on control circuit.

b. Intensity Lower Than the Specified Value

The microprocessor increases the duty ratio of the scanning lamp on signal (FLON*) sent to the fluorescent lamp driver. The fluorescent lamp driver, in turn, increases the current flowing to the scanning lamp, thereby increasing the intensity of the scanning lamp.

c. Intensity Higher Than the Specified Value

The microprocessor decreases the duty ratio of the scanning lamp on signal (FLON*) sent to the fluorescent lamp driver. The fluorescent lamp driver, in turn, decreases the current flowing to the scanning lamp, thereby decreasing the intensity of the scanning lamp.

5. Controlling (automatic) the Fluorescent Lamp Intensity (ALVC control)

The copier executes ALVC control in which the ON voltage of the scanning lamp is automatically corrected to prevent changes in the copy images caused by deterioration of the photosensitive drum.

 COPYRIGHT © 1995 CANON INC. CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

E. Controlling the Primary Charging Roller Bias

1. Outline

Figure 3-307 shows the circuit that controls the application voltage of the primary charging roller, and the circuit has the following functions:

- turns on and off the DC bias.
- controls the AC bias to a constant voltage.
- switches the DC bias voltage level.
- controls the scanning lamp ON voltage level.

The primary charging roller is given a DC bias so as to maintain the surface potential of the photosensitive drum to a specific value. The DC bias is switched according to whether or not a copy image is being formed.

Reference:
DC component: -900/-1376V

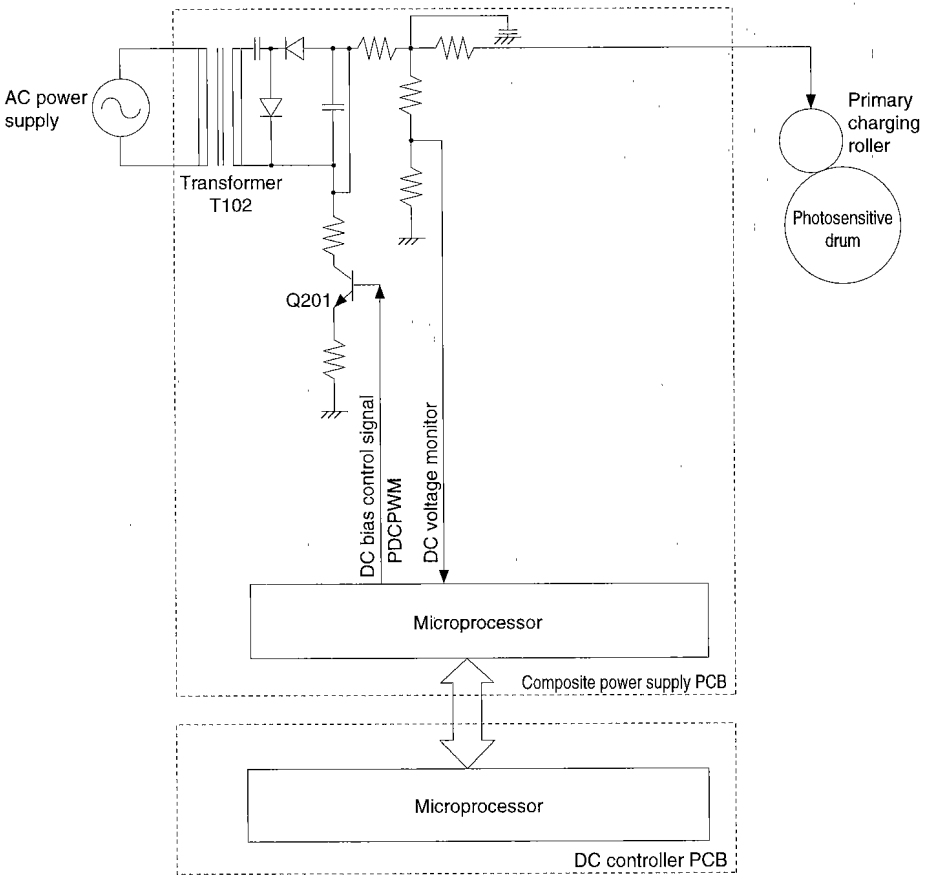


Figure 3-307

COPYRIGHT © 1995 CANON INC.

2. Operation

a. Turning On and Off the DC Bias

When the Copy Start key is pressed, the microprocessor on the DC controller PCB instructs the microprocessor on the composite power supply PCB to turn on the DC bias.

The microprocessor on the composite power supply PCB drives the main transformer (T102).

The DC bias is generated by rectifying the voltage from the main transformer (T102) and is sent to the primary charging roller.

b. Controlling the DC Bias to a Specific Voltage

The DC bias is controlled to a specific voltage by the microprocessor on the composite power supply PCB. The microprocessor on the composite power supply PCB constantly monitors the DC voltage. The microprocessor serves to maintain the DC bias voltage to a constant value by varying the DC bias control signal (PDCPWM) based on measurements of voltage taken.

c. Switching the DC Bias Voltage Level

The copier switches the level of the DC bias voltage according to whether or not copy images are being formed.

The DC bias voltage is switched by the microprocessor on the composite power supply PCB by varying the DC bias control signal (PDCPWM) according to the DC bias switching timing signal sent by the microprocessor on the DC controller PCB.

during copying: -900 V
other: -1376 V

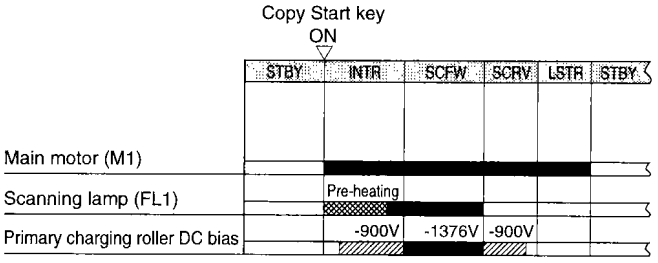


Figure 3-308

COPYRIGHT © 1995 CANON INC.
CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

d. Controlling (automatic) the Primary Charging roller Bias Application Voltage Level and the Scanning Lamp ON Voltage Level (APVC, ALVC control)

Copy images will suffer changes if changes occur in their static latent images, which in turn are caused by the following:

- changes in drum sensitivity; and
- changes in the degree of charge by the primary charging roller.

These symptoms are brought about by changes in the site environment (temperature, humidity) deterioration, wear, or dirt on parts.

The copier's light area potential (VL) and dark area potential (VD) have a tendency to increase; to compensate for this tendency, the copier corrects the primary charging roller bias application voltage level (APVC control) and the scanning lamp ON voltage level (ALVC control), thereby ensuring a specific light area potential (VL) and dark area potential (VD) at all times.

Study the following for an idea of how the mechanism is activated (after power-on, during initial rotation for 1st copy):

- Flow

A specific voltage of about -1.376 kV is applied to the primary charging roller for about 1.3 sec.

↓

The current value at this time is detected by the current detection circuit, and sent to the microprocessor (Q501).

↓

The microprocessor (Q501) in turn sends the current value to the microprocessor (Q101) on the DC controller so that the application voltage for the primary charging roller bias may be determined based on the value.

Caution:

You must enter the APVC value recorded on the label attached to the composite power supply circuit using service modes No. 34 and No. 35 whenever you have replaced the composite power supply PCB.

Caution:

You must enter the APVC correction voltage value recorded on the label attached to the front of the drum unit in user mode 'U7' or service modes No. 32 and No. 33 whenever you have replaced the drum unit if the model does not accommodate PGP.

COPYRIGHT © 1995 CANON INC.

F. Controlling the Developing/ Separation Static Eliminator Bias

1. Outline

Figure 3-309 shows the circuit that controls the developing/separation static eliminator bias, and the circuit has the following functions:

- turns on and off the DC component.
- turns on and off the AC component.
- controls the voltage level of the DC bias according to type of developing assembly.
- controls the voltage level of the DC bias according to the copy density settings.

The developing cylinder is given AC and DC biases during copying operation.

While the photosensitive drum is rotating, except during development, about -500 V is applied to the developing cylinder regardless of the position of the density adjusting lever, thereby preventing adhesion of excess toner to the surface of the photosensitive drum.

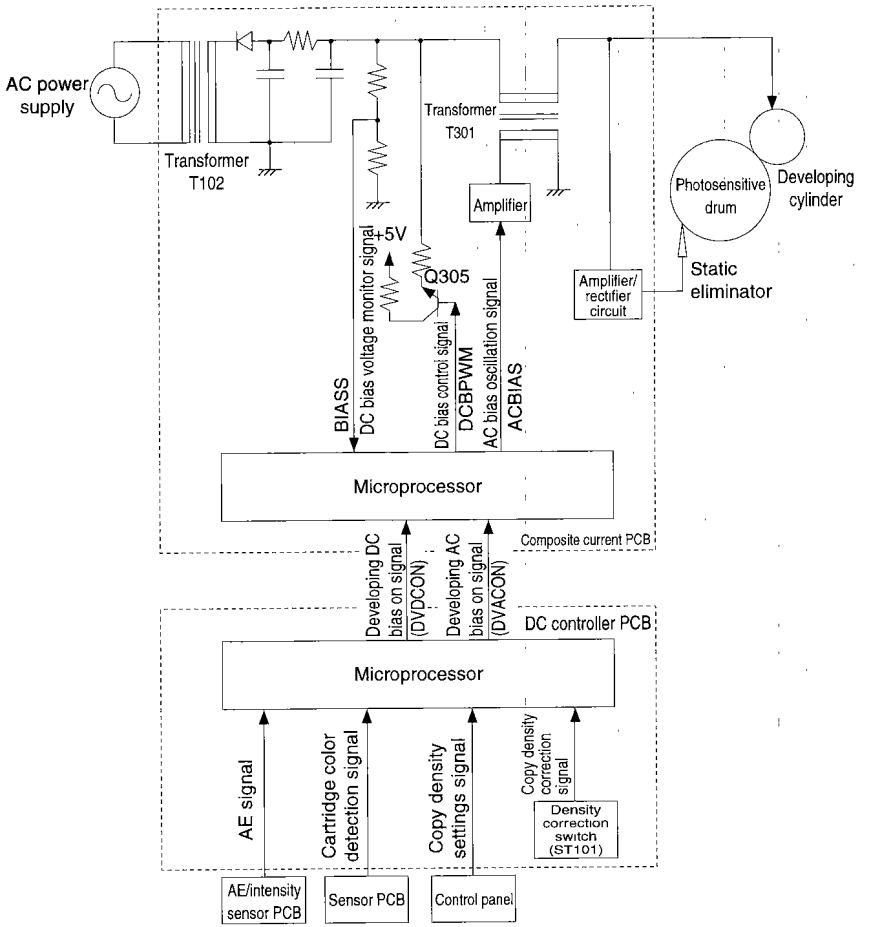


Figure 3-309

COPYRIGHT © 1995 CANON INC.
CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

2. Turning On and Off the DC Component

As soon as the Copy Start key is pressed, the microprocessor on the DC controller PCB sends the developing DC bias on signal (DVDCON) to the microprocessor on the composite power supply PCB.

In response, the microprocessor on the composite power supply PCB drives the main transformer (T102) to generate a DC bias for the developing cylinder.

When the developing DC bias on signal (DVDCON) from the microprocessor on the DC controller is cut, the microprocessor on the composite power supply PCB stops the drive to the main transformer (T102), thereby cutting off the DC bias.

3. Turning the AC Component On and Off

About 3.5 sec after the Copy Start key is pressed, the microprocessor on the DC controller PCB sends the developing AC bias on signal (DVACON) to the microprocessor on the composite power supply PCB.

The microprocessor on the composite power supply sends the AC bias oscillation signal (ACBIAS) to the amplifier, which in turn drives the transformer (T301) and generates an AC bias for the developing cylinder.

The AC output of the transformer (T301) is transformed/rectified and then supplied to the static eliminator.

When the developing AC bias on signal (DVACON) from the microprocessor on the DC controller PCB is cut off, the microprocessor on the composite power supply PCB stops the AC bias oscillation signal (ACBIAS) to cut off the AC bias supply.

COPYRIGHT © 1995 CANON INC.

4. Controlling the Voltage Level of the DC Bias to Suit the Copy Density Setting

The copier varies the DC bias control signal (DCBPWM) according to the settings shown below to vary the DC component voltage, thereby controlling the copy density.

- setting of the density adjusting lever (manual control mode)
- output of the AE sensor (automatic control mode)
- setting of density correction dial (VR107)
- type of developing assembly

DC bias: -50V to -550V

The density correction dial (VR107) on the DC controller PCB may be used to adjust the DC bias voltage, there by correcting foggy images caused by changes in the sensitivity of the photosensitive drum. The density correction dial functions when the density is adjusted in manual mode or during automatic density adjustment mode.

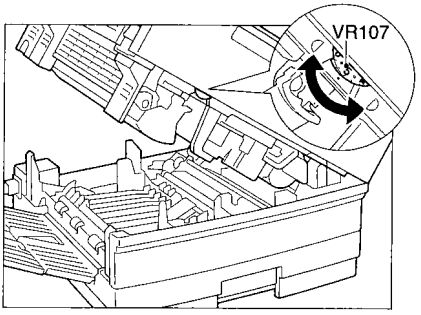
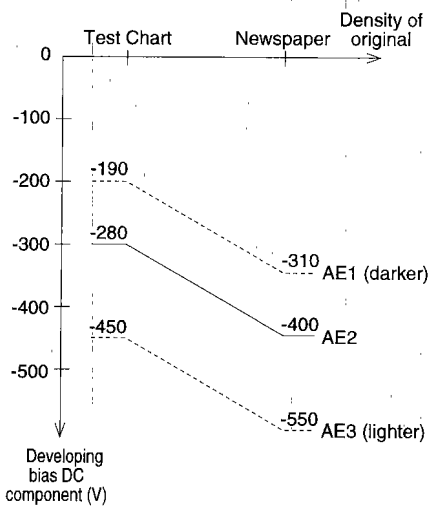


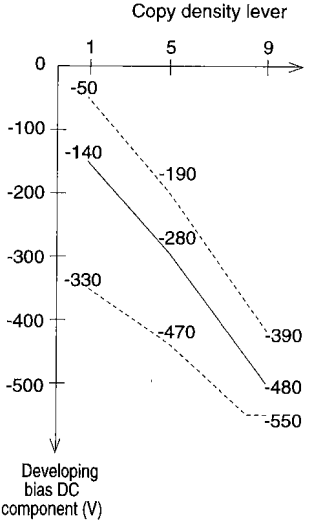
Figure 3-310

See Figures 3-311 and 312 for changes in the DC bias according to the setting of the density adjusting lever in manual mode and to the changes in the AE sensor output in automatic mode.



AE mode ON

Figure 3-311



Manual Density adjustment

Figure 3-312

COPYRIGHT © 1995 CANON INC.

G. Developing Assembly/Cleaning Assembly

1. Outline

The developing assembly is locked or released manually by operating the locking lever.

The primary charging roller is cleaned by the cleaning pad operated by the cleaning solenoid.

The developing assembly and the waste toner feeding blade are driven by the drive of the main motor (M1) transmitted by the drive gear. The waste toner scraped by the cleaning blade is forwarded inside the drum unit by the toner feeding blade for collection.

The level of toner inside the developing assembly is monitored by the toner antenna.

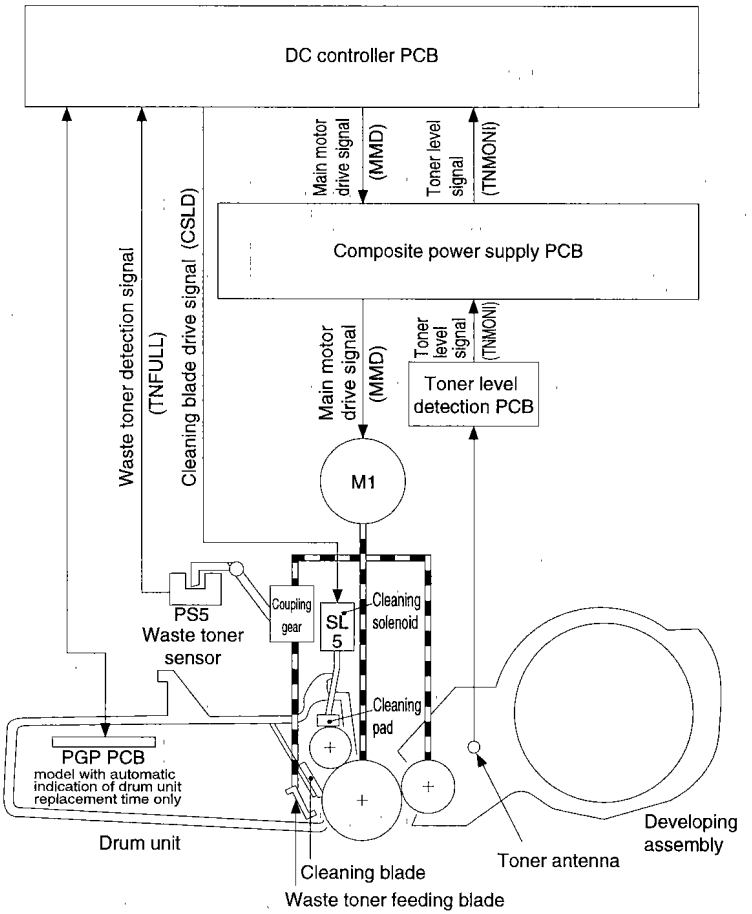


Figure 3-313

COPYRIGHT © 1995 CANON INC.

2. Monitoring the Level of Toner

a. Outline

The level of toner inside the developing assembly is monitored by the toner level antenna and the toner level detecting circuit.

The toner level antenna is found inside the developing assembly, and an AC bias is applied to the developing cylinder so that the toner level antenna and the developing cylinder are bonded by static electricity whose size varies according to the level of toner.

The copier uses the changes in the size of this static electricity to monitor the level of toner.

b. Mechanism

The toner level detecting PCB receives an AC bias equal to the AC bias applied to the developing cylinder and an AC bias that represents the level of toner by the toner level antenna. The AC bias applied to the developing cylinder is used as a reference signal, and the AC bias from the toner level antenna is used as the toner level signal.

The toner level detection PCB compares these two types of signals and sends the results of comparison to the DC controller PCB as the toner level signal (TNMONI).

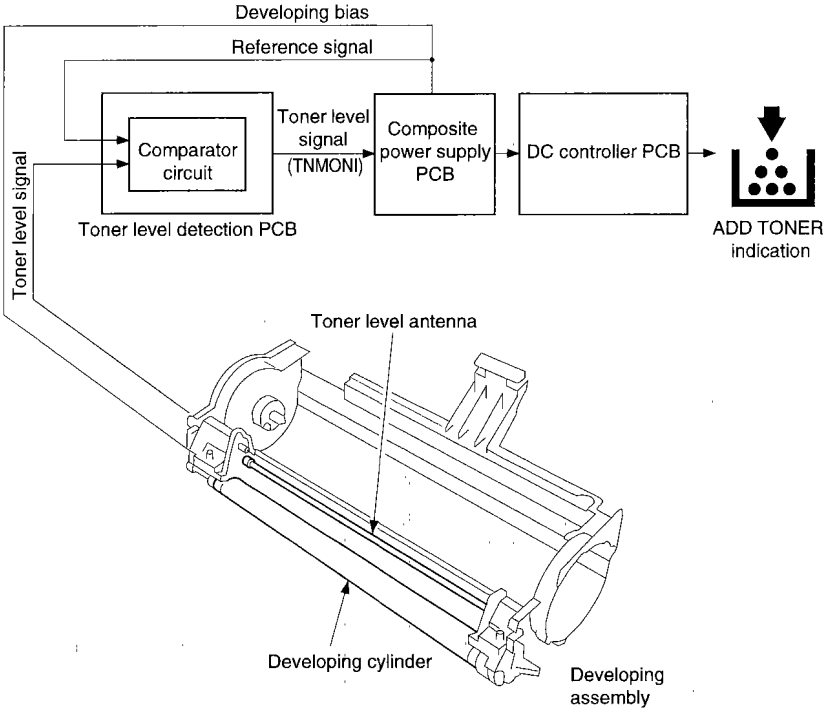


Figure 3-314

 COPYRIGHT © 1995 CANON INC. CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

The DC controller PCB measures the toner level signal (TNMONI) which arrives continuously at specific intervals, and takes multiple samplings for comparison against the toner level value stored in advance. If the results of comparison show that 90% or more samplings are under the toner level value, it will immediately flashes the ADD TONER indicator on the control panel and, at the same time, it will stop copying operation upon delivery of the copy; in the case of continuous copying, it stops operation after making five copies after the absence of toner has been detected.

The ADD TONER indicator turns off when you turn off and then on the power switch after the indicator has come on, enabling copying operation. However, the indicator will flash once again after a single copying operation. You can make as many as 100 copies while the ADD TONER indicator is flashing by turning off and then on the power; when 100 copies have been made, the operation will stop and remain disabled until toner is added.

COPYRIGHT © 1995 CANON INC.

3. Cleaning the Primary Charging Roller

a. Outline

The primary charging roller remains in contact with the photosensitive drum at all times; for this reason, it can collect dirt from the photosensitive drum, possibly causing unstable primary charging.

To prevent such a problem, the copier is equipped with a cleaning mechanism for the primary charging roller, thereby ensuring stable primary charging at all times.

b. Operation

When the cleaning solenoid (SL5) turns on, the cleaning pad is butted against the primary charging roller to start cleaning.

Cleaning is executed during post rotation and lasts about 1.5 sec, making post rotation longer than rotation without cleaning.

Cleaning is executed depending on the following two conditions:

- Condition 1

Copies made since power-on are counted (cumulative), and cleaning is executed when 10 or more copies have been delivered. If the number of copies is less than 10, the copy count is stored when the power is turned off, and the new count is added to it when the power is returned.

- Condition 2

Copies made since power-on are counted, and cleaning is executed when the 20th copy has been discharged. The copy count is cleared when the power is turned off, and the copy count starts newly when the power is returned next time. When the count reaches 20 or higher, cleaning will be executed once again.

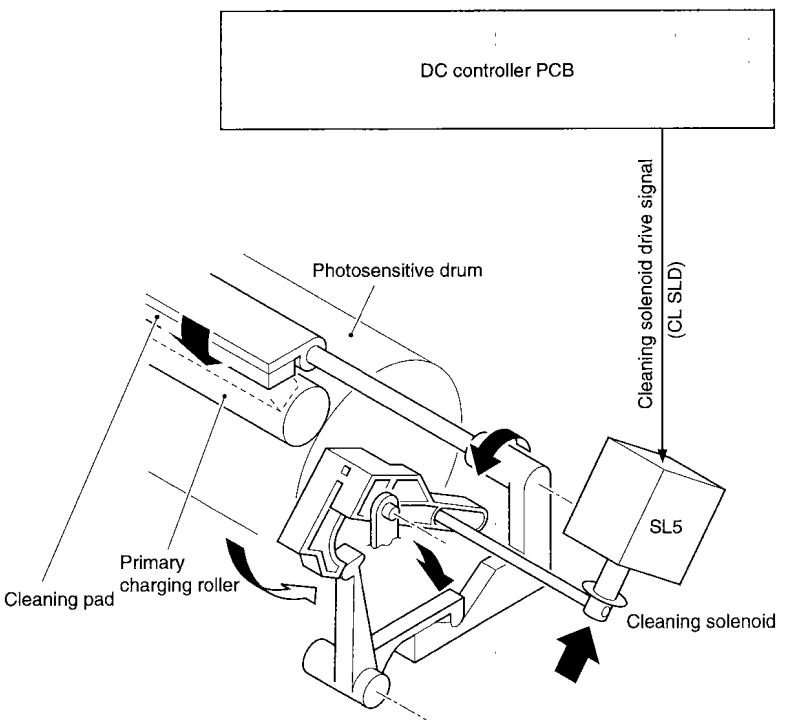


Figure 3-315

COPYRIGHT © 1995 CANON INC.
CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

c. Cleaning Operation Timing Chart

Condition 1

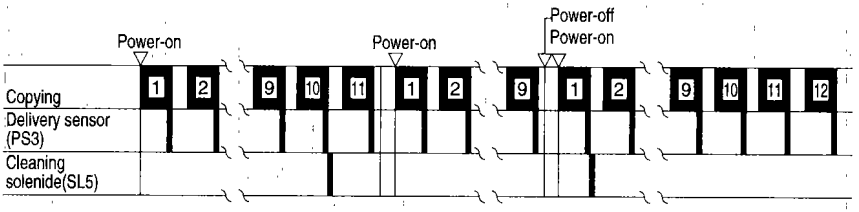


Figure 3-316

Condition 2

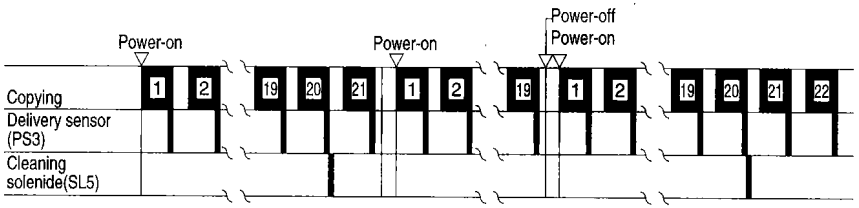


Figure 3-317

COPYRIGHT © 1995 CANON INC.

4. Checking the Waste Toner

When the photosensitive drum rotates, its drive is transmitted through the drum gear, coupling gear, and toner feeding blade drive gear in order. The toner feeding blade serves to forward waste toner collected by the cleaning blade to the inside of the drum unit.

The coupling gear transmits drive by keeping two gears in contact by the work of a spring.

When the inside of the drum unit becomes full of waste toner, the load against rotating the toner feeding blade increases. Further, when torque is imposed on the toner feeding blade, the coupling gear becomes disengaged, cutting the drive to the toner feeding blade, thereby causing the flag to move away from the waste toner sensor (PS5). When the flag leaves the waste toner sensor, the Replace Drum Cartridge indicator (⊂⊃) on the control panel starts to flash; in the case of a model with the drum unit replacement automatic indication function, the indicator turns on.

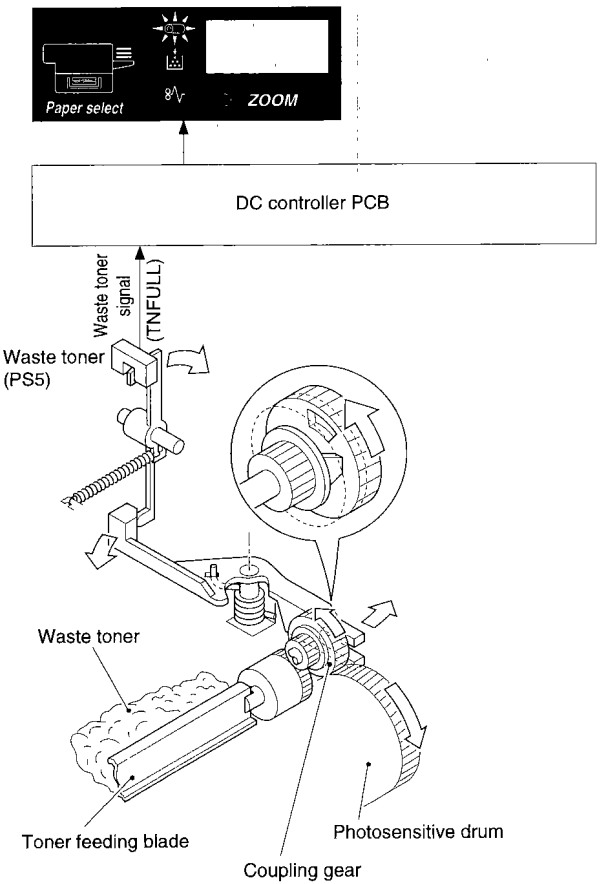


Figure 3-318

COPYRIGHT © 1995 CANON INC.

5. Drum Unit Replacement Time Automatic Indication Mechanism*

*Only for a model with the drum unit replacement time automatic indication function.

a. Outline

This mechanism is used to indicate when the drum unit must be replaced based on the number of copies made. A PGP PCB is provided inside the drum unit to inform the DC controller when the drum unit must be replaced.

When the time for the replacement of the drum unit approaches, the DC controller PCB flashes the Replace Drum Unit indicator on the control panel; when the time for the replacement comes, the DC controller turns on the Replace Drum Unit indicator on the control panel, and indicates 'CC' (Change Cartridge) on the copy/count indicator after making 100 copies.

The copy may have a drum unit which accommodates this function or one which is not designed so. In addition, if you install a drum unit which does not accommodate the function in a copier model which is designed for the function, copying operation will be suspended while 'CC' (Change Cartridge) is indicated on the count/ratio indicator.

b. Operation

• Drum Unit Installed

When the drum unit is installed and the power is turned on, the DC controller reads the following four types of data from the PGP PCB and stores them:

1 serial number of drum unit (recorded on PGP PCB)
2 copy count
3 primary charging voltage (DC) correction value
4 drum sensitivity current correction value

If the DC controller PCB cannot find a serial number or finds a serial number which does not belong to the copier, it turns on the Replace Drum Unit on the control panel and suspends copying operation while indicating 'CC' on the count/ratio indicator.

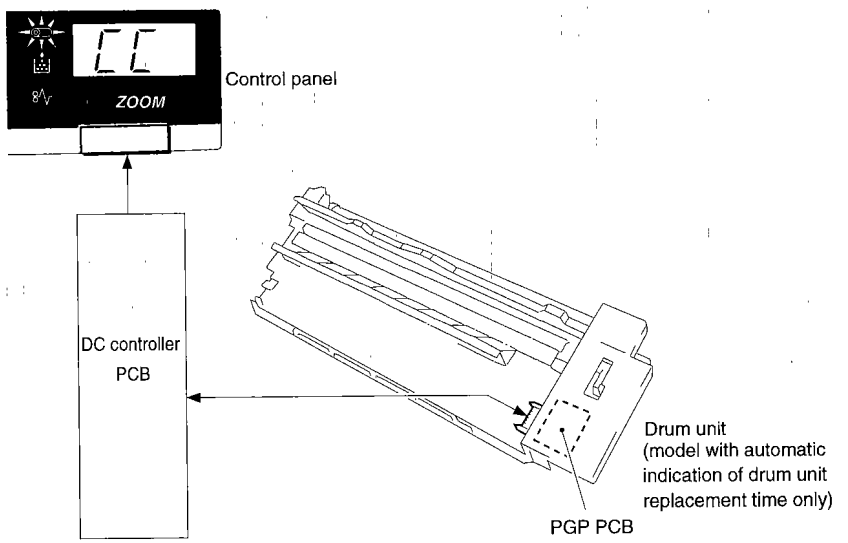


Figure 3-319

COPYRIGHT © 1995 CANON INC.

• During Copying Operation

The DC controller advances the copy counter on the PGP PCB each time a copy is delivered. When the count reaches 29,000, it flashes the Replace Drum Unit indicator on the control panel to inform the user that the time for replacement is approaching.

When the count reaches 30,000, the DC controller turns on the Replace Drum Unit on the control panel to inform the user that the time for replacement is approaching. You may make a further 100 copies after the indication has turned on, and you can check the current count in service mode.

When the copy count reaches 30,100, the DC controller turns on the Replace Drum Unit on the control panel and suspends copying operation while indicating 'CC' on the count/ratio indicator. (In continuous copying, the operation is suspended after making all the copies.)

To reset the copier when its operation has been suspended, replace the drum unit with a new one.

Copy count	Replace Drum Unit indicator (⌀)	Count/ratio indicator	Copying	Description	Remarks
29,000	Flashing	Indicates count/ratio	Yes	Indicates that the drum unit must soon be replaced.	• You may turn off the indication in user mode.
30,000	ON	Indicates count/ratio	Yes	Indicates that the copier will soon stop operating. It will stop operating after making an additional 100 copies.	• You can check the current copy count in user mode.
30,100	ON	Indicates 'CC'	No	Indicates that the drum unit must be replaced.	• You cannot make copies unless you replace the drum unit.

Table 3-301

COPYRIGHT © 1995 CANON INC.
CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

H. Controlling the Transfer Roller Bias

1. Outline

The copier uses a direct transfer method with a roller. For this reason, it controls the bias differently from the conventional copiers that employ corona charging.

The transfer roller bias may be either of the following three types; see the descriptions for the function and output timing of each:

a. Transfer Bias

This bias corresponds to the transfer bias of a conventional copier, and is a negative voltage.

b. Cleaning Bias

The copier uses a direct charging method, and could allow adhesion of toner to the transfer roller moving from the photosensitive drum because of a jam.

To remove such toner, the copier applies a positive voltage at a specific timing to return the toner from the transfer roller to the photosensitive drum.

- during initial rotation after the Copy Start key is pressed.
- while the scanner is moving in reverse.
- during last rotation.

c. Reference Bias (ATVC)

Changes in the environment or deterioration of the transfer roller can change the resistance of the transfer roller, ultimately affecting the transfer efficiency.

To suppress the changes in the copy images caused by changes in the transfer efficiency, the copier corrects the level of transfer bias application.

The transfer ATVC bias is a bias applied each time the Copy Start key is pressed to determine the correction value.

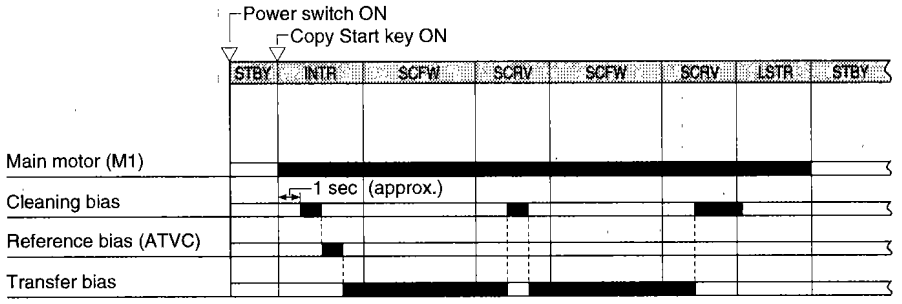


Figure 3-320

COPYRIGHT © 1995 CANON INC.

Figure 3-321 shows the circuit that controls the foregoing three types of bias, and the circuit has the following functions:

- turns on and off the transfer roller bias.
- controls the transfer bias to a constant voltage.
- corrects the voltage level of the transfer bias (ATVC).
- switches the polarity of the DC bias (cleaning).

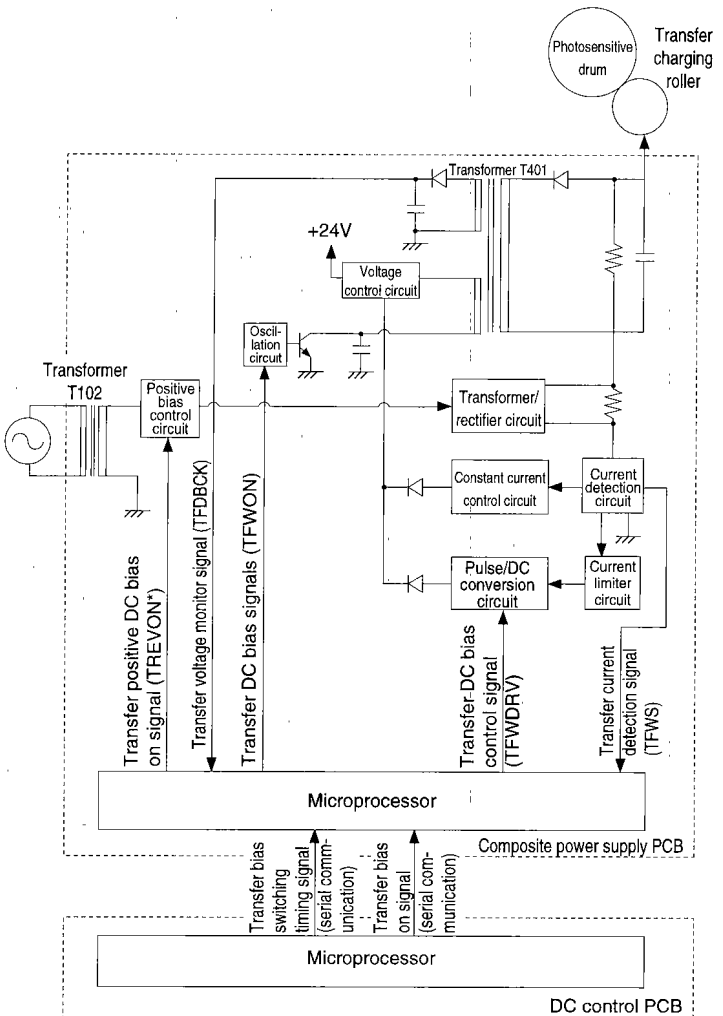


Figure 3-321

COPYRIGHT © 1995 CANON INC.
CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

2. Turning On and Off the Transfer Roller Bias

The microprocessor on the DC controller PCB sends the transfer bias on signal to the microprocessor on the composite power supply PCB. In response, the microprocessor on the composite power supply generates the transfer bias on signal to drive the transformer (T401), thereby supplying the transfer charging roller with transfer bias.

3. Controlling the Transfer Bias to a Specific Voltage

The transfer bias is controlled to a specific voltage by the microprocessor on the composite power supply PCB. The microprocessor on the composite power supply PCB monitors the voltage of the transfer bias at all times. The microprocessor on the composite power supply PCB sends the transfer bias control signal through the pulse/DC conversion circuit according to the detected voltage to the voltage control circuit to maintain the transfer bias to a specific voltage.

4. Correcting the Voltage Level of the Transfer Bias

The copier corrects the voltage level of the transfer bias in any of the following two ways:

- before starting copying (ATVC)
- after starting copying

a. Before Starting Copying (ATVC)

To correct changes in the transfer efficiency caused by changes in the environment or deterioration of the transfer roller, the copier automatically corrects the application voltage level of the transfer bias.

During initial rotation after the Copy Start key is pressed, the copier feeds a specific current to the transfer roller. The current detection circuit on the composite power supply PCB sends measurements of the current to the microprocessor in the form of the current detection signal. The microprocessor determines the voltage to be applied to the transfer roller based on such data.

This control is executed once during initial rotation after a press on the Copy Start key.

b. After Starting Copying

The copier automatically corrects the application voltage during copying operation to compensate for the changes in the transfer efficiency caused by different types of copy paper.

The current detection circuit detects the current flowing through the transfer charging roller and sends the data to the microprocessor on the composite power supply PCB. Using the data, the microprocessor determines the voltage to be applied to the transfer charging roller and controls the DC bias voltage by generating the transfer DC bias control signal so that the voltage will be optimum.

5. Switching the Polarity of the DC Bias (cleaning)

The microprocessor on the DC controller PCB sends the transfer bias switching timing signal to the microprocessor on the composite power supply PCB.

The microprocessor on the composite power supply PCB, on the other hand, turns off the transfer DC bias on signal and, at the same time, sends the transfer positive DC bias on signal to the positive bias control circuit. The voltage from the positive bias control circuit is sent to the transfer charging roller through the transformer/rectifier circuit.

COPYRIGHT © 1995 CANON INC.

I. Measuring the Density of the Original (AE)

1. Outline

The copier is equipped with an automatic density adjustment (AE) mechanism which adjusts the DC component of the developing bias. As long as the original has an even overall density, the AE mechanism ensures the generation of copies without fogging by varying the DC component of the developing bias to suit the density of the original.

The copier's AE mechanism does not execute an AE scan; rather, it measures the density of the original during initial rotation at the scanner home position; for this reason, the copying speed remains the same in both AE and non-AE modes.

Figure 3-322 shows the circuit that controls the measurement of the density of originals.

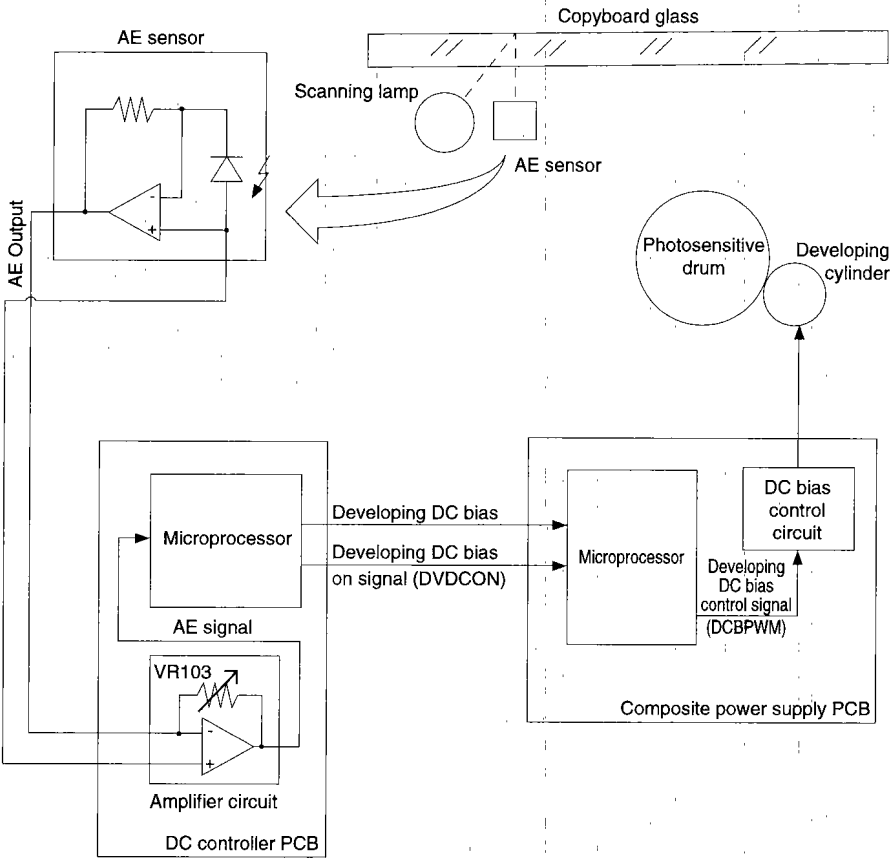


Figure 3-322

COPYRIGHT © 1995 CANON INC.
CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

2. Operation

To measure the density of an original, the scanning lamp is turned on at a specific intensity to expose the original during initial rotation with the scanner at the home position.

The light reflected by the area shown in Figure 3-323 is checked by the AE sensor (photodiode), whose output is amplified and sent to the microprocessor on the DC controller PCB as the AE signal.

The microprocessor on the DC controller PCB checks the AE signal four times, and averages the measurements to compute the developing DC bias which best matches the averaged density of the original; it then sends the developing DC bias signal and the developing DC bias on signal to the microprocessor on the composite power supply PCB.

The microprocessor on the composite power supply PCB generates the developing DC bias control signal (DCBPWM) based on the value of the DC bias.

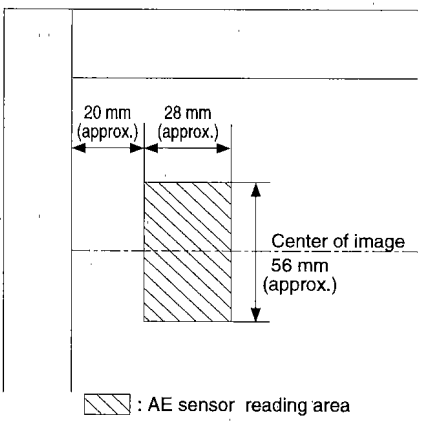


Figure 3-323

3. Basic Sequence of Operations (AE measurement)

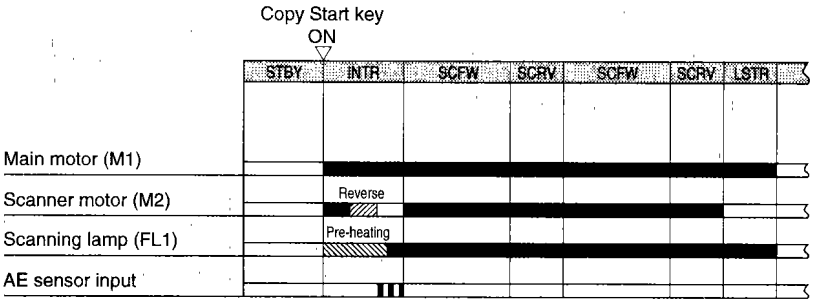


Figure 3-324

COPYRIGHT © 1995 CANON INC.

4. AE Adjustment (VR102, VR103)

Make the following adjustments whenever you have replaced the scanning lamp or the intensity/AE sensor PCB:

Preparing for Adjustment

- Obtain a newspaper whose print is as even as possible; avoid one with photos or with large headings.
- Make sure you have adjusted the intensity of the scanning lamp.

1) Turn on the copier.
2) Short the two jumper wires (JP3, JP4) on the DC controller PCB using a screwdriver.
   - 'F' appears on the ratio/count indicator.

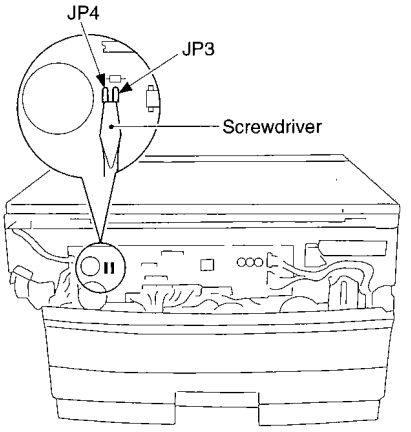


Figure 3-325

3) Stop shorting the jumper wires; press the +/- key so that '40' appears on the ratio/count indicater; than, press the start key.
   - The scanning lamp should turn on, and the main motor (M1) should rotate.

4) Turn VR103 on the DC controller PCB fully clockwise.

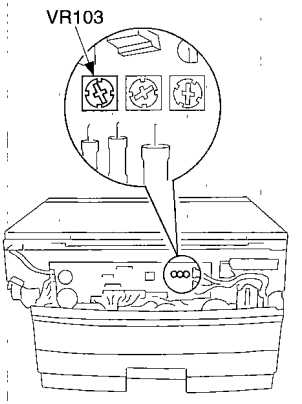


Figure 3-326

5) Place a newspaper on the copyboard, and close the copyboard cover.
6) Turn VR102 so that the reading in the display is between b2 and bc.

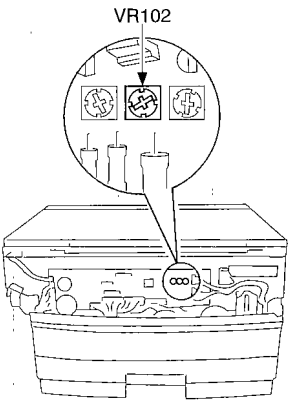


Figure 3-327

7) Remove the newspaper from the copyboard, and place a stack of five sheets of copy paper on the copyboard glass instead; then, close the copyboard cover.

 COPYRIGHT © 1995 CANON INC. CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

8) Turn VR103 on the DC controller PCB so that the reading in the display of the control panel is between 53 and 5d.

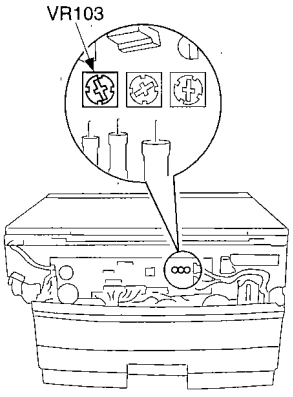


Figure 3-328

9) Make one copy, and check if it is free of fogging but the print is dark enough.
   - If fogging is noted or the characters are too light, repeat the steps starting with step 1) once again.
   - If the problem cannot be corrected after going through the steps once again, use the density correction dial (VR107).

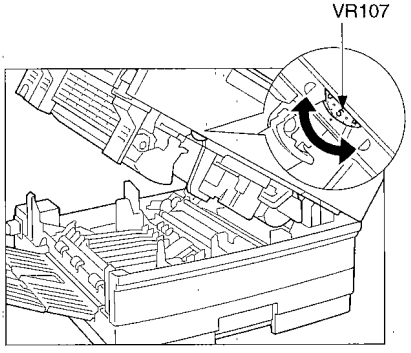


Figure 3-329

COPYRIGHT © 1995 CANON INC.

J. Controlling the Side Blank Exposure

1. Outline

The copier is equipped with a side blank exposure lamp at the front and the rear to prevent adhesion of toner to the drum when reduced copies are made.

2. Operation

The side blank exposure lamp moves based on the travel distance of the lens as measured by the lens travel detecting shaft for reduced copies for blanking out the non-image areas.

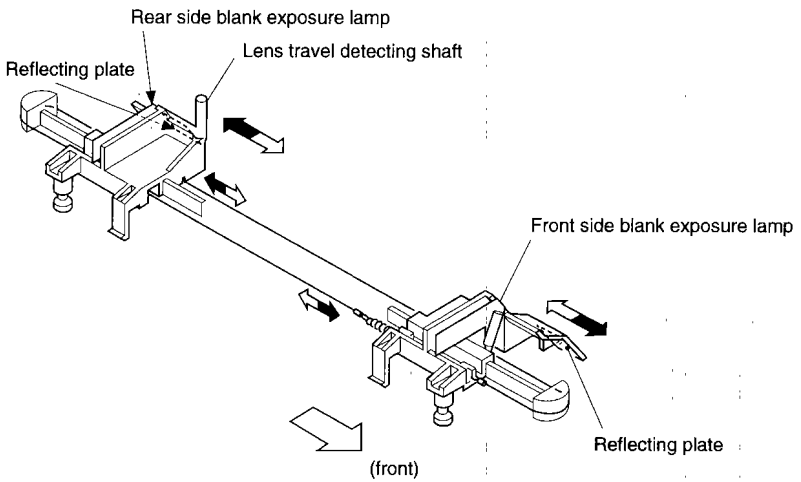
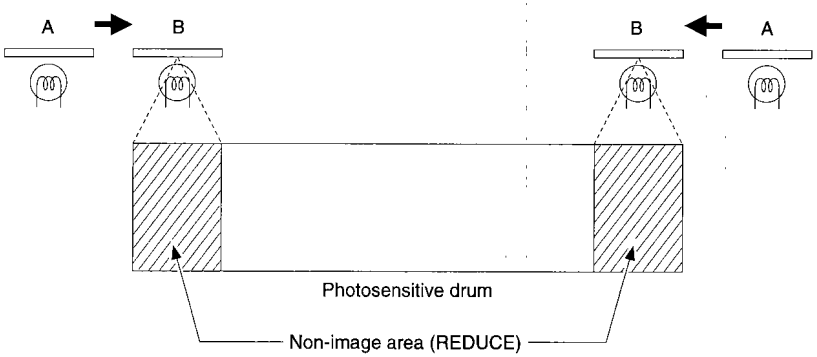


Figure 3-330



A : position of the side blank exposure lamp at time of DIRECT/ENLARGE.
B : position of the side blank exposure lamp at time of REDUCE.

Figure 3-331

COPYRIGHT © 1995 CANON INC.

IV. PICK-UP/FEEDING SYSTEM

A. Outline

The copier uses center reference feeding, in which copy paper is moved while centered along the pick-up/feeding path; the pick-up system consists of a single-cassette path or a multifeeder path.

Copy paper from the cassette or the multifeeder is controlled by the registration roller so that it matches the leading edge of the image on the photosensitive drum; it is then moved to the transfer, separation, feeding, and fixing assemblies before it is discharged to the copy tray.

The copier is equipped with two sensors to monitor the movement of copy paper.

No.	Name	Remarks
PS3	Delivery paper sensor	
Q751	Pre-registration roller paper sensor	

Table 3-401

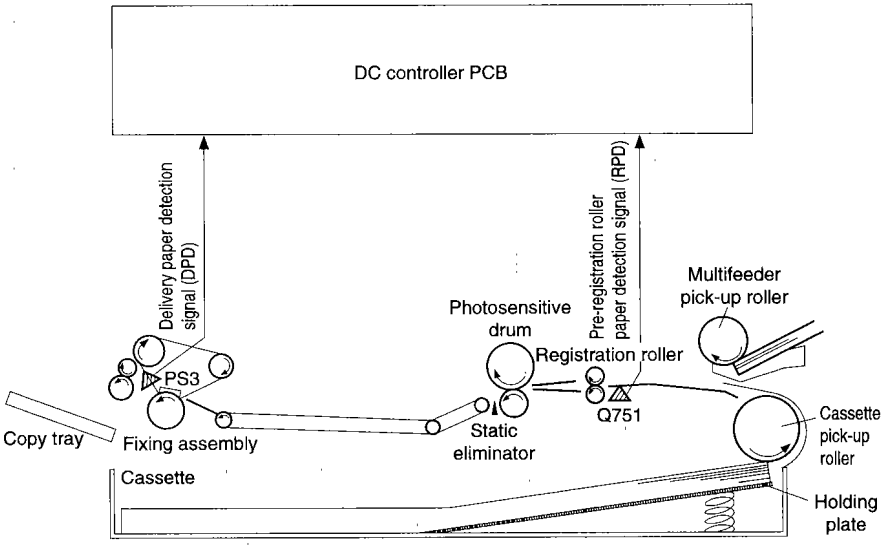


Figure 3-401

B. Controlling the Pick-Up Roller

1. Outline

The copier has two pick-up rollers; namely, the cassette pick-up roller and the multifeeder pick-up roller. The drive to the rollers is switched by a gear unit that shifts the drive path; for this reason, the drive is transmitted to only one of the two rollers at a time.

2. Controlling the Cassette Pick-Up Roller

The cassette pick-up roller is controlled by the spring clutch, control ring, and pick-up solenoid (SL1).

When the solenoid turns on, the pawl moves away from the control ring, thereby allowing the drive of the main motor (M1) to be transmitted to the pick-up roller.

When the pick-up roller starts to rotate, copy paper is picked up and sent as far as the registration roller. The registration roller, in turn, serves to control the copy paper so that it matches the leading edge of the image on the photosensitive drum.

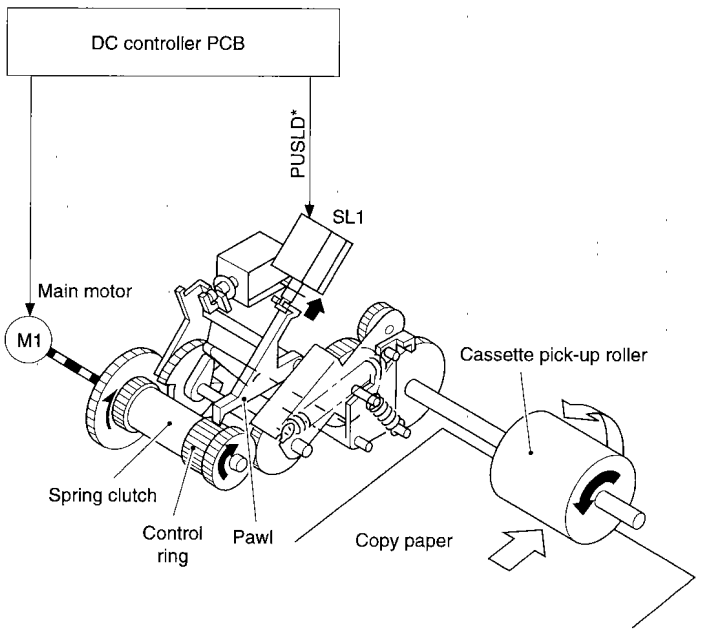


Figure 3-402

COPYRIGHT © 1995 CANON INC.
CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

3. Controlling the Multifeeder Pick-Up Roller

The multifeeder pick-up roller is controlled by the spring clutch, control ring, pick-up solenoid (SL1), gear unit, lift arm, and multifeeder pick-up solenoid (SL4).

When the multifeeder pick-up solenoid (SL4) turns on, the drive of the main motor (M1) is transmitted to the cam gear. When the cam gear starts to rotate, the lifter which is in contact with the cam gear starts to lift the gear unit and, at the same time, lowers the paper guide plate. The cam gear is designed to stop at a specific location.

When the solenoid (SL1) turns on while the mechanism is in this spatial relationship, the pawl moves away from the control ring, allowing the drive of the main motor (M1) to be transmitted to the multifeeder pick-up roller.

When the multifeeder pick-up roller rotates, copy paper is picked up and sent as far as the registration roller. The registration roller in turn controls the copy paper so that its leading edge matches the leading edge of the image on the photosensitive drum.

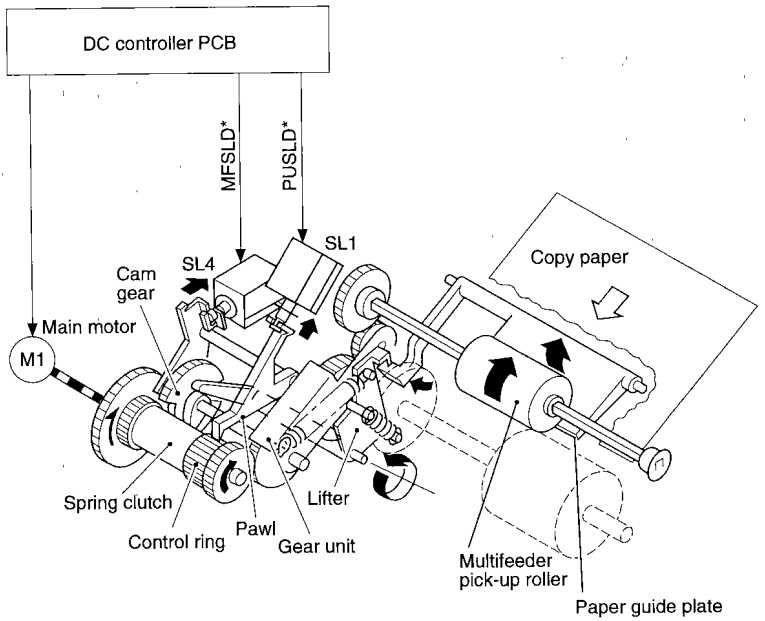


Figure 3-403

COPYRIGHT © 1995 CANON INC.

C. Controlling the Feeding Mechanism

1. Controlling the Registration Roller

The registration roller is controlled by the spring clutch, control ring, registration sensor, and registration solenoid (SL2).

When the microprocessor on the DC controller PCB receives the pre-registration paper detection signal from the pre-registration paper sensor (Q751), it turns on the registration solenoid at a specific timing. When the registration solenoid turns on, the pawl moves away from the control ring, allowing the drive of the main motor to be transmitted to the registration roller and moving the copy paper to the photosensitive drum.

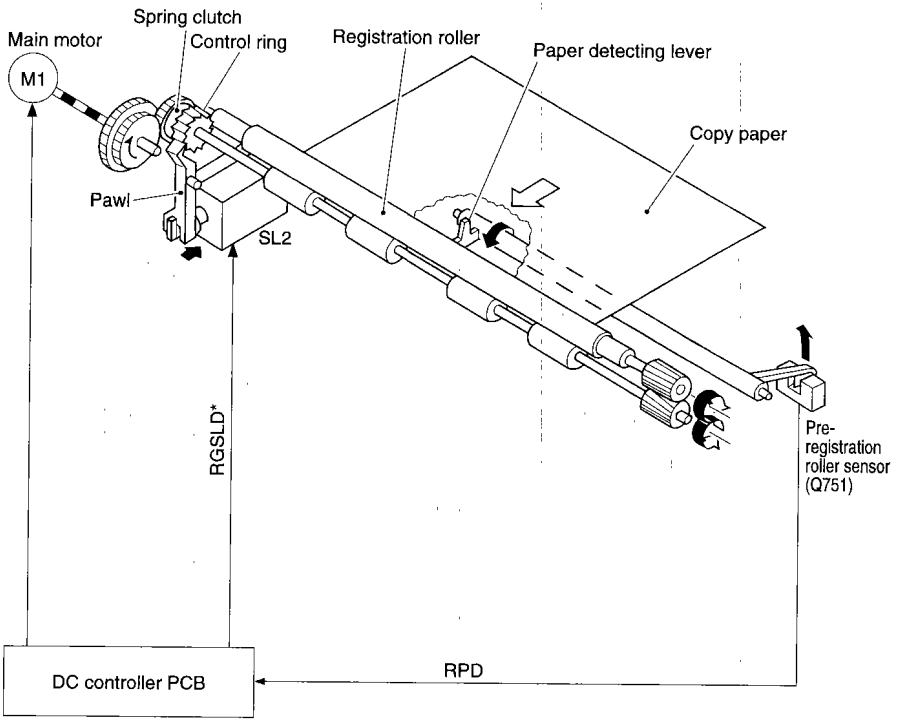


Figure 3-404

COPYRIGHT © 1995 CANON INC.

2. Basic Sequence of Operations (pick-up/feeding; A4, 2 copies)

a. Pick-Up from the Cassette

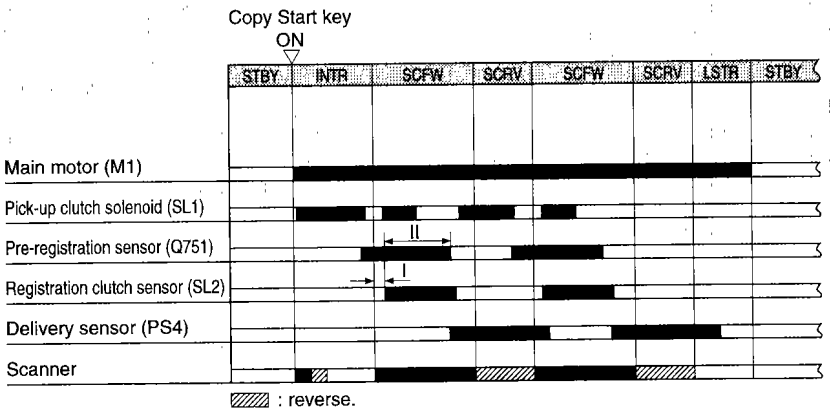
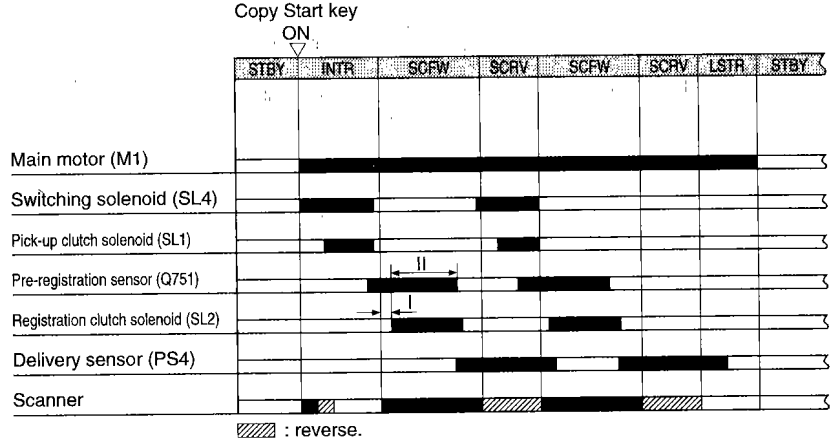


Figure 3-405

b. Pick-Up from the Multifeeder



I : Varied by value under '30' of service mode (registration adjustment).

II : Used for measuring the length of copy paper.
length of copy paper (mm) = 92 (mm/s) x II (s) + 11 (mm) - 10 (mm)
92 (mm/s): speed at which copy paper is moved.
11 (mm): distance between pre-registration sensor and registration roller.
10 (mm): length of actuator of the pre-registration sensor.

Figure 3-406

COPYRIGHT © 1995 CANON INC.

D. Fixing and Delivery

1. Outline

The drive roller of the fixing assembly is driven by the main motor (M1).

The rotation of the drive roller turns the fixing film, ultimately rotating the lower fixing roller.

The temperature of the fixing heater is monitored by the thermistor (TH1), and is communicated to the microprocessor on the DC controller PCB as the fixing heater temperature signal (TH1).

Based on the value of the TH1 signal, the microprocessor on the DC controller PCB changes the fixing heater drive signal (HTRD) to control the temperature of the fixing heater.

The rear end of the fixing heater is equipped with a sub thermistor (TH2) to check for overheating.

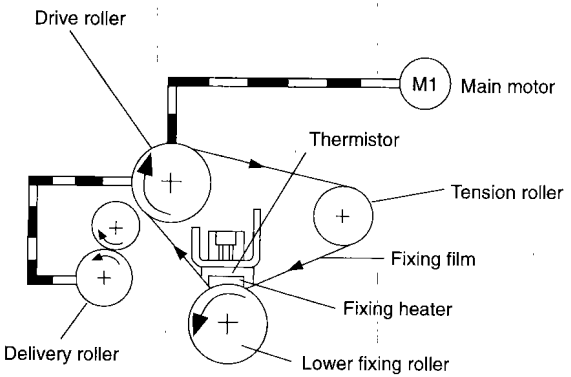


Figure 3-407

COPYRIGHT © 1995 CANON INC.
CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

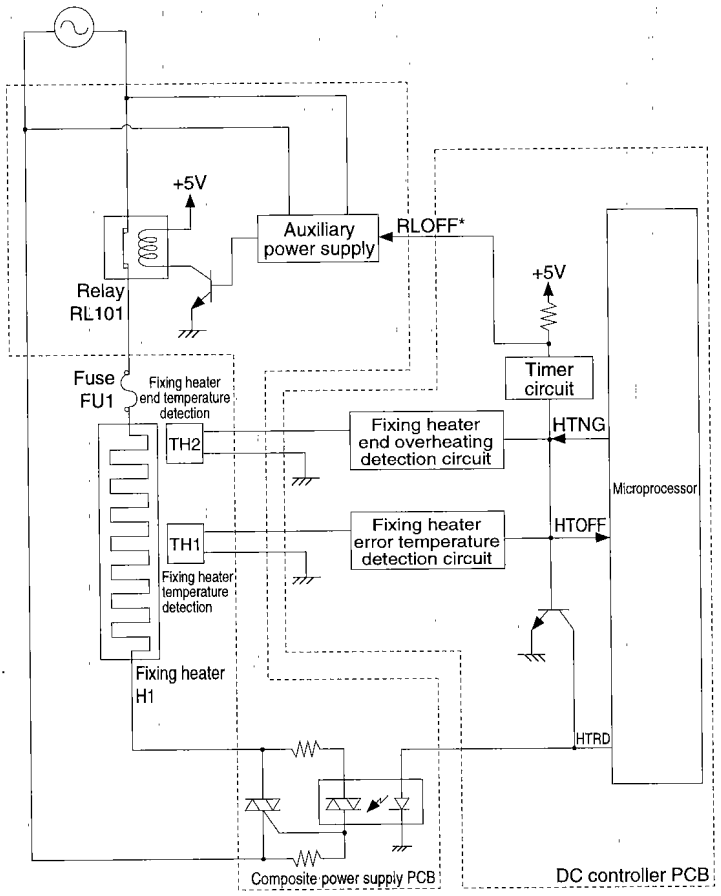

+5V
Auxiliary power supply
RLOFF*
+5V
Relay RL101
Timer circuit
Fuse FU1
Fixing heater end temperature detection
TH2
Fixing heater end overheating detection circuit
HTNG
Microprocessor
TH1
Fixing heater error temperature detection circuit
HTOFF
Fixing heater temperature detection
Fixing heater H1
HTRD
Composite power supply PCB
DC controller PCB

Figure 3-408

2. Controlling the Temperature of the Fixing Heater

The copier keeps the fixing heater off while in standby state, and starts supplying the fixing heater with power when the Copy Start key is pressed.

The control temperature for the fixing heater is determined in response to the first press on the Copy Start key after power-on. The control temperature for the fixing heater is determined by the temperature of the fixing heater (value of main thermistor TH1) and the number of copies to be made in continuous mode. The control temperature of the fixing heater is determined by any of the following three ways.

The copier keeps track of the number of copies made until the power is turned off or the auto shutoff mechanism (about 5 min) is activated, during which time the effective control temperature will not be changed.

	Heater temperature at first press on Copy Start key after power-on	Copies	Control temperature
1	Lower than 100°C	1 to 9	215°C
		10 to 14	210°C
		15 to 19	205°C
		20 to 24	200°C
		25 to 29	195°C
		30 or more	190°C
2	100°C or higher and less than 120°C	1 to 9	205°C
		10 to 14	200°C
		15 to 19	195°C
		20 or more	190°C
3	120°C or higher	1 to 9	195°C
		10 or more	190°C

Table 3-402

COPYRIGHT © 1995 CANON INC.
CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

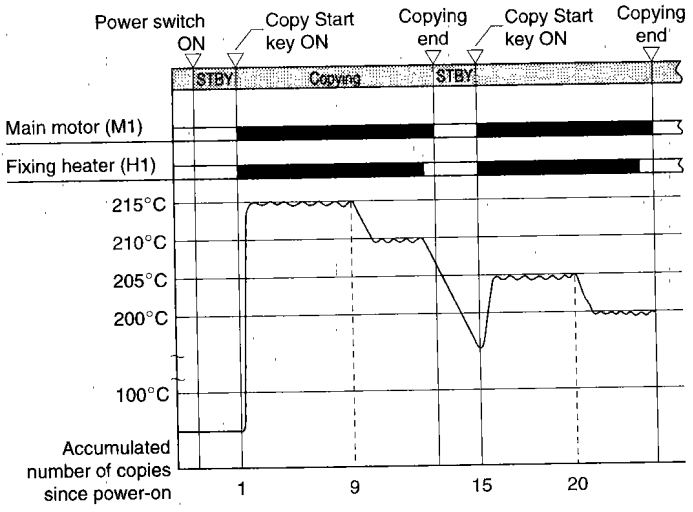


Figure 3-409

COPYRIGHT © 1995 CANON INC.

3. Controlling the Power Supply to the Fixing Heater

The temperature of the fixing heater is controlled by controlling the power supplied to the fixing heater.

The power to the fixing heater is controlled by controlling its phase.

The microprocessor on the DC controller PCB controls the output timing of the fixing heater driver signal (HTRD) so that power suited to the target temperature of the fixing heater may be supplied; this is to control the phase of the power supplied to the fixing heater.

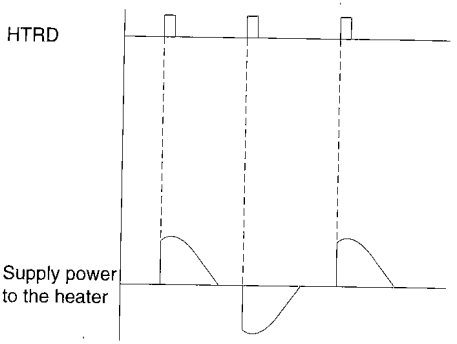


Figure 3-410

4. Correcting the Variation in the Resistance of the Fixing Heater

The plane-shaped heater used as the fixing heater has production variations in its resistance that would hinder proper execution of thermal control of the fixing heater.

To correct possible problems, the copier compensates for the variations in terms of seven settings of the resistance, whose values are read by a microprocessor.

Caution:

The resistance of the fixing heater is decided based on the combination of the jumper wires connected to the connector of the thermistor (TH1); see Figure 3-411.
The resistance is checked and appropriate settings are made at the factory when the fixing assembly is assembled; do not rearrange the jumper wires.

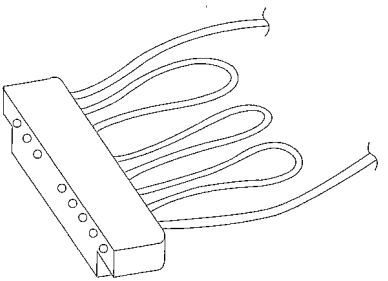


Figure 3-411

COPYRIGHT © 1995 CANON INC.
CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

5. Checking for Overheating at the End of the Fixing Heater

The rear end of the copier's fixing heater is equipped with a sub thermistor (TH2) to check for overheating.

The thermistor serves to prevent damage to the fixing film otherwise caused by overcurrent occurring in areas where paper does not come into contact while copies are made continuously on paper of A4 or smaller.

In multifeeder manual mode, the copier increases the paper-to-paper distance as soon as the number of copies made in continuous mode reaches a specific value indicated in the following table, i.e., changes the copy speed from 12 cpm to 8 cpm:

Heater temperature at copy start	Number of copies made in continuous mode
less than 100°C	30th copy
100°C or more to less than 120°C	20th copy
120°C or more	10th copy

Table 3-403

By increasing the gap between sheets, the copier decreases the power supplied to the fixing heater, thereby preventing overheating at ends.

Once changed, the distance between sheets of paper is maintained until copying is over.

Should the temperature at the end of the fixing heater still keep rising after increasing the distance between sheets and the sub thermistor (TH2) detects 255°C or more, copying operation is stopped after discharging the ongoing copy; at the same time, 'H' is indicated in the display of the control panel, disabling the Copy Start key.

The 'H' indication turns off automatically when the detection temperature of the sub thermistor (TH2) falls below 240°C, and a press on the Copy Start key then will make the remaining number of copies.

Caution:

If overheating is detected at ends, the copier indicates 'H' on the control panel; advise the user that the indication does not refer to an error.

6. Protection Mechanisms

The copier is equipped with the following protection mechanisms to prevent malfunction of the fixing heater:

a. Thermistor (TH1, TH2)

The microprocessor on the DC controller PCB monitors the voltage of the thermistor (TH1, TH2); if it detects a high temperature error or a low temperature error, it sends the fixing heater error signal (HTNG) to the timer circuit and, at the same time, indicates an error code (E000 through E003) on the control panel. In response, the timer circuit sends the relay off signal (RLOFF*) to the auxiliary power supply about 1.5 after it has received the fixing heater error signal (HTNG). The auxiliary power supply in turn turns off the relay (RL601) to turn off the power supply. The data for problems associated with 'E000 through E003', i.e., related to the heater, is backed up and 'E000 through E003' will be indicated on the control panel next time the power is turned on.

When the power is turned off while 'E000' through 'E003' is indicated on the control panel, 'E000 through E003' will be indicated on the control panel if the power switch is turned on, and the Copy Start key will not be enabled.

b. Thermal Fuse (FU1)

If the area around the thermal fuse exceeds 226°C and remains so for a specific period of time, the thermal fuse melts to cut off the power to the fixing heater.

COPYRIGHT © 1995 CANON INC.

7. Correcting Displacement of the Fixing Film

a. Outline

The fixing film can become displaced toward the front or the rear as it keeps moving. To correct such displacement, the copier is equipped with a correction mechanism.

The fixing film displacement correction mechanism consists of the following four parts:

- tension roller
- swing arm
- tension wire
- balance spring

Displacement, if any, of the fixing film is corrected by moving the front side of the tension roller up and down by the balance spring and the wire. When the fixing film has become displaced toward the front, the copier lowers the front of the tension roller; when the fixing film has become displaced toward the rear, the copier moves up the front of the tension roller.

The tension roller is designed to stop where the fixing film can move without displacement by the work of the balance spring and the wire.

If the fixing film becomes displaced toward the rear or the front in excess of the range within which displacement is corrected, the fixing film displacement sensor (PS4) turns on. When the sensor (PS4) turns on, the fixing film is stopped and an error code (E0 and 07 alternately flashed) is indicated on the control panel.

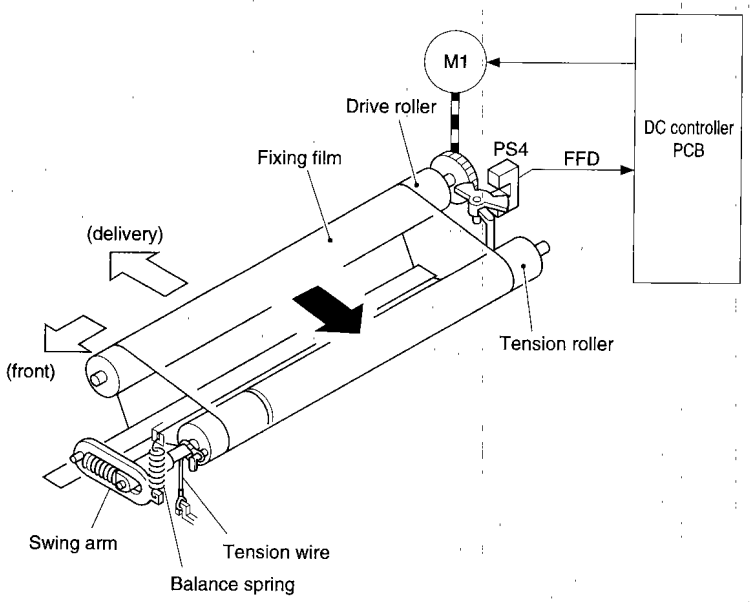


Figure 3-412

COPYRIGHT © 1995 CANON INC.
CANON NP6012/NP6012F/NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

b. Operation

The tension roller consists of an idler roller and a friction roller. The idler roller rotates in relation to the movement of the fixing film; and the friction roller, which is along the same axis as the idler roller, rotates independently of the idler roller. A tension wire is hooked on the peripheral direction of the friction roller shaft, taking in the tension wire for a length corresponding to the rotation force of the friction roller so as to lower the front of the tension roller.

The tension of the tension wire increases or decreases in proportion to the rotation force of the fiction roller. The rotation force of the friction roller increases or decreases in proportion to the area of the fixing film that comes in contact with the friction roller.

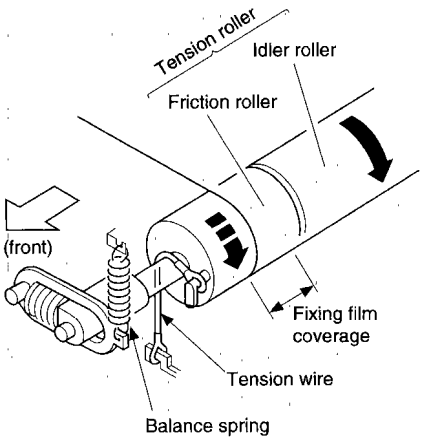


Figure 3-413

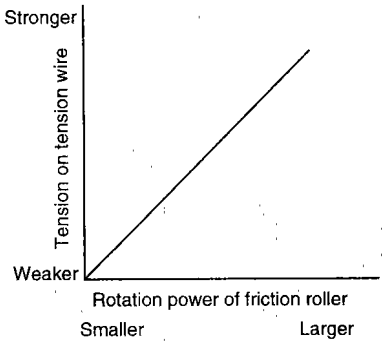


Figure 3-414

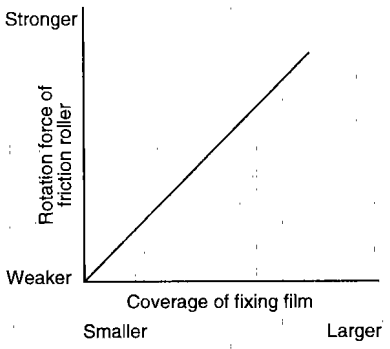


Figure 3-415

When the fixing film becomes displaced toward the rear, the area of the fixing film coming into contact with the fixing film will decrease, thereby decreasing the rotation force of the fixing roller. When the rotation force of the friction roller decreases, the tension of the tension wire decreases, thereby causing the balance spring to lift the front of the tension roller by way of the swing arm.

COPYRIGHT © 1995 CANON INC.

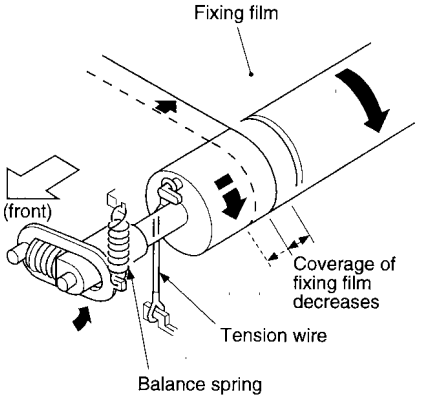


Figure 3-416

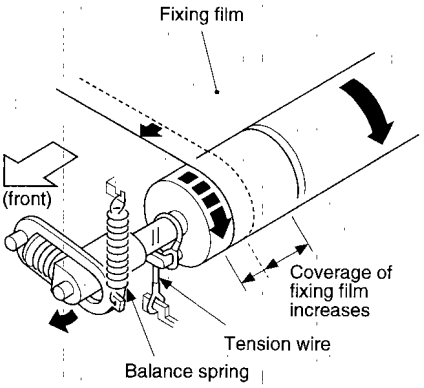


Figure 3-417

The front of the fixing film starts to move toward the front when the front of the tension roller is raised.

As the fixing film moves toward the front, the coverage of the friction roller by the fixing film will become greater to increase the rotation force of the friction roller; the condition will cause the tension wire to move down the front of the tension roller.

As the front of the tension roller is moved down, the tension of the balance spring will increase, and the tension roller will stop where the tension of the tension wire and the tension of the balance spring become balanced.

c. Measures for 'E007'

Use fixing film displacement correction mode if 'E007' is indicated as follows:

1) Turn off the power switch, and leave the copier alone for about 10 min.
   - The temperature of the fixing heater will drop below 100°C.
2) Turn on the power switch.
   - The copier indicates 'C' on the control panel, and the fixing assembly becomes activated moving the fixing film (about 3 min).
3) After 3 min, the 'C' indication on the control panel will disappear when the fixing film returns to its appropriate position, and the copier enters standby state.

Caution:

The copier indicates 'C' on the control panel while it executes film displacement correction mode; advise the user that the indication does not refer to an error.

If 'E007' does not disappear after executing the above fixing film displacement correction mode, see the instructions under "Correcting the Displacement of the Fixing Film" in the Service Handbook (p.2-14).

COPYRIGHT © 1995 CANON INC.

E. Detecting Jams

The copier is equipped with two copy paper sensors to check the presence/absence of copy paper and whether it is moving normally.

- pre-registration roller paper sensor (Q751)
- delivery sensor (PS3)

The presence/absence of copy paper or a jam is checked in reference to the presence/absence of copy paper at the respective sensors at such times as stored in the microprocessor in advance.

The copier keeps a record of the remaining number of copies to make or the copy mode effective at time of a jam. The microprocessor has the following five 'no paper/jam' detection sequences, and it also identifies a jam if any of the sensor detects copy paper at power-on.

1. Absence of Paper in the Multifeeder Pick-Up Assembly (pick-up delay jam)

In multifeeder mode, if copy paper does not reach the registration sensor within a specific period of time, the copier identifies a jam, stops the main motor in about 3 sec, and indicates the Add Paper message. If the registration sensor detect copy paper within this 3-min period (approx.), the copier identifies a pick-up delay jam and flashes the Jam message.

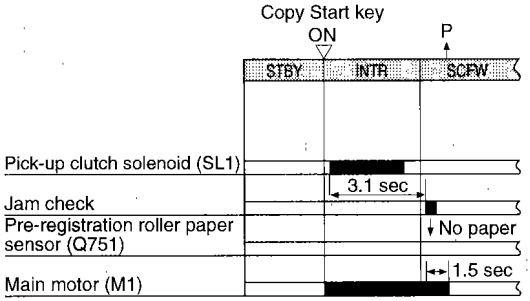


Figure 3-418 (normal)

COPYRIGHT © 1995 CANON INC.

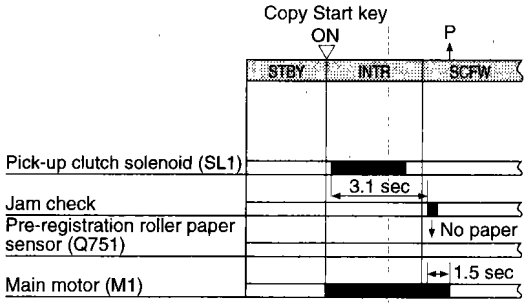


Figure 3-419 (no paper)

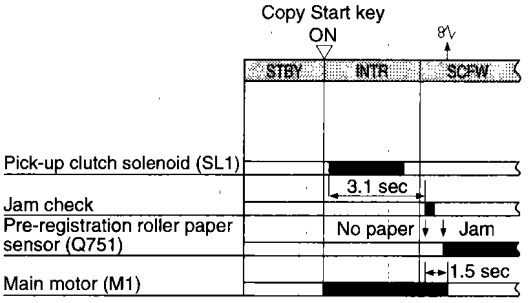


Figure 3-420 (jam)

COPYRIGHT © 1995 CANON INC.

2. Cassette/Singlefeeder Pick-Up Delay Jam

a. Cassette Pick-Up Delay Jam

If copy paper does not reach the registration sensor within a specific period of time after the Copy Start key has been pressed, the copier identifies a pick-up delay jam, stops copying operation, and flashes the Jam message.

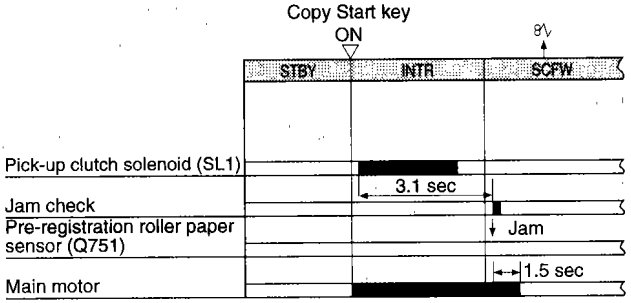


Figure 3-421

b. Singlefeeder Pick-Up Delay Jam

If copy paper does not reach the registration sensor within a specific period of time after paper has been picked up, the copier identifies a pick-up delay jam, stops copying operation, and flashes the Jam message.

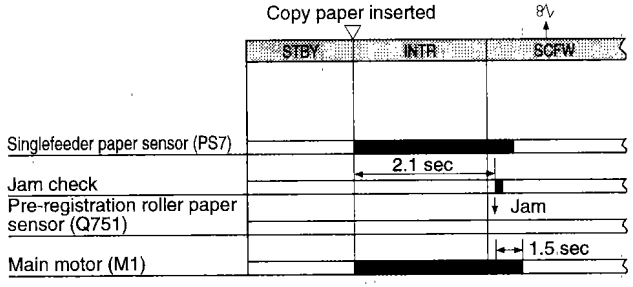


Figure 3-422

COPYRIGHT © 1995 CANON INC.

3. Pick-Up Stationary Jam

If copy paper does not move past the registration sensor because of a feeding problem, the copier identifies a pick-up delay jam, stops copying operation, and flashes the Jam message. (This detection is not executed in singlefeeder mode.)

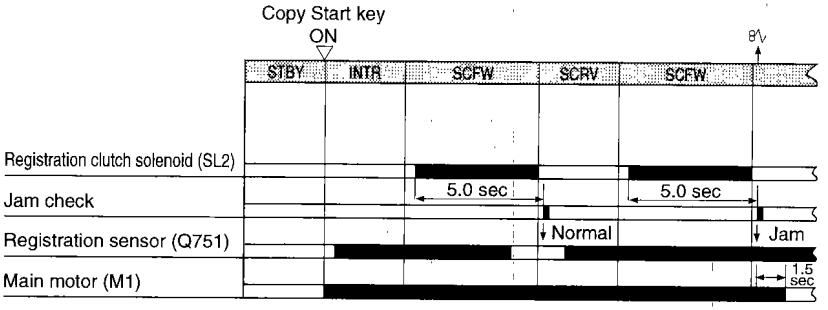


Figure 3-423

4. Delivery Delay Jam

If copy paper does not reach the delivery sensor within a specific period of time because of a feeding problem, the copier identifies a delivery delay jam, stops copying operation, and flashes the Jam message.

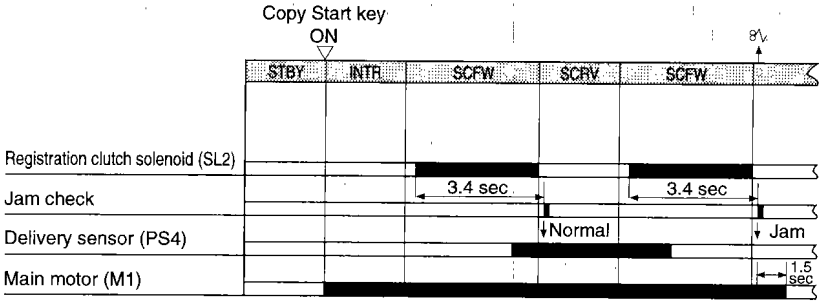


Figure 3-424

5. Delivery Stationary Jam

If copy paper does not reach the delivery sensor within a specific period of time because of a feeding problem, the copier identifies a delivery stationary jam, stops copying operation, and flashes the Jam message.

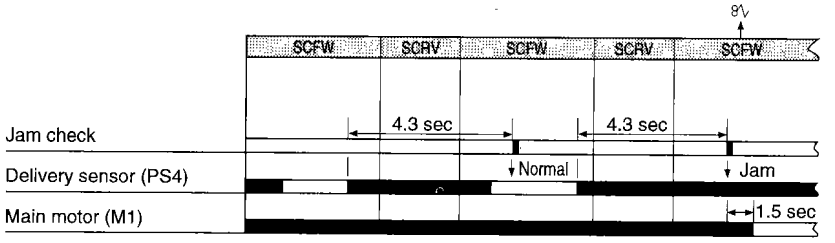


Figure 3-425

COPYRIGHT © 1995 CANON INC.
CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

V. FAN

The copier is equipped with one fan which serves to discharge ozone and cool the inside of the machine. The fan is driven directly by the main motor (M1) by means of a belt.

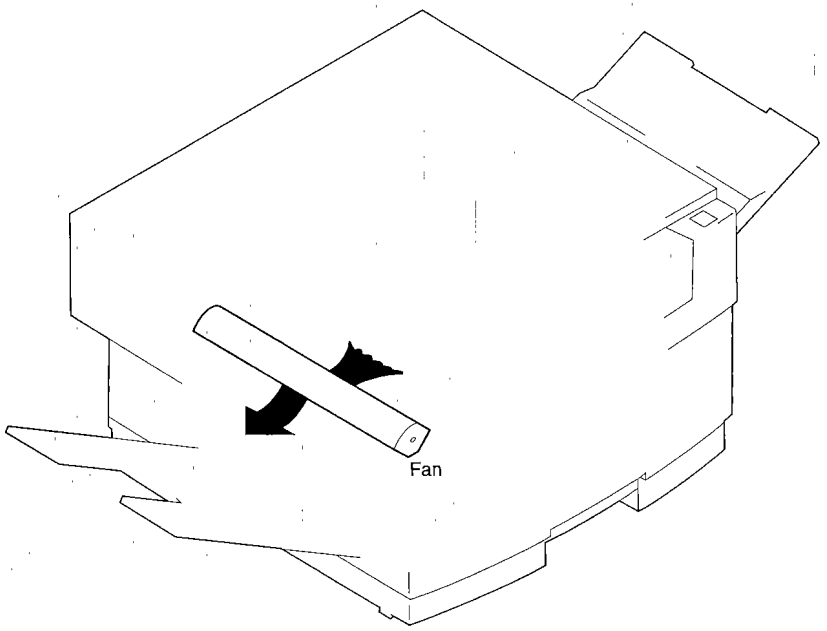


Figure 3-501

COPYRIGHT © 1995 CANON INC.

VI. POWER SUPPLY

A. Distribution of Power

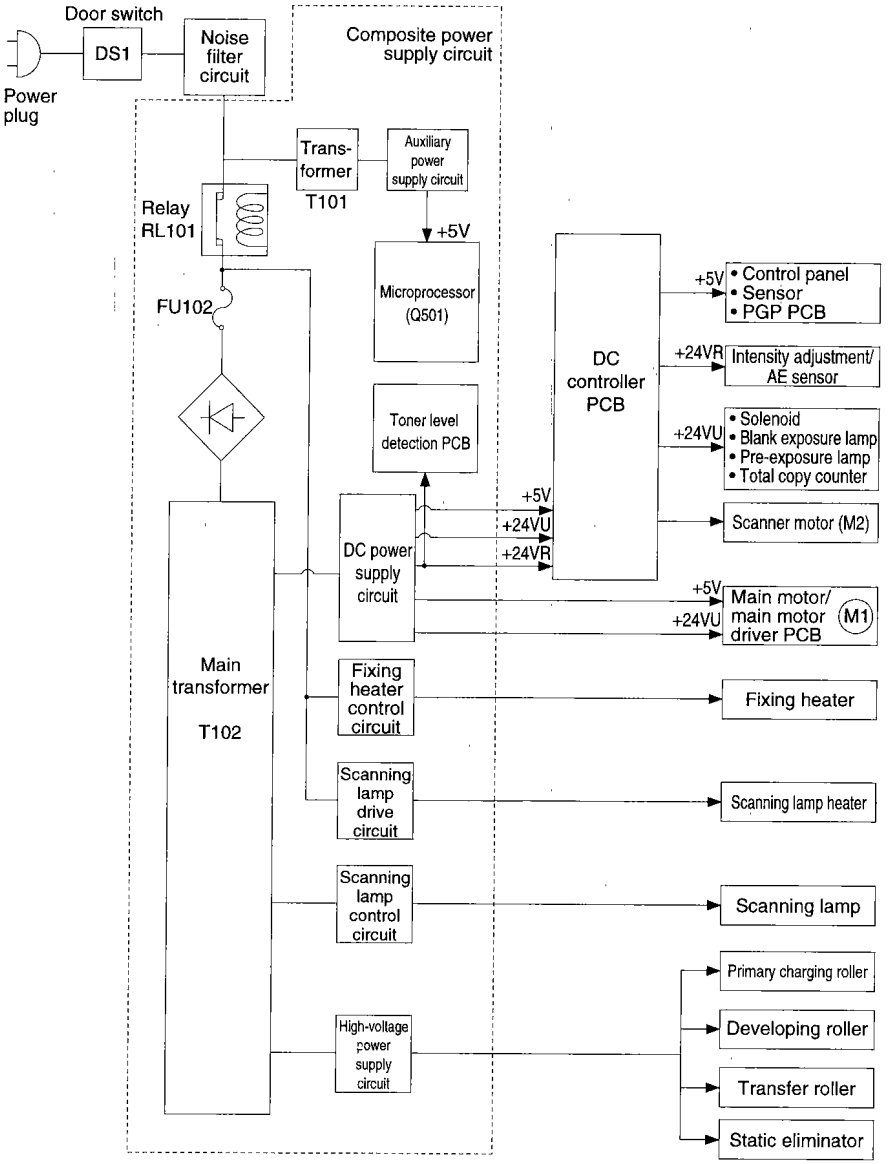


Figure 3-601

COPYRIGHT © 1995 CANON INC.
CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

B. Power Supply Circuit

The copier's power supply assembly consists of its DC power supply, scanning lamp power supply, and composite power supply circuit, and uses a single main transfer (T102) to supply high voltage. The copier's power supply is equipped with a microprocessor for exchange of data with the DC controller PCB.

The copier's power switch is a soft switch, and the copier is equipped with an auxiliary power supply to drive the soft switch. The auxiliary power supply provides the microprocessor (Q501) with +5V power while the power plug is connected and the door switch (DS1) is on.

AC power is supplied to the DC power supply assembly when the door switch (DS1) and the power switch on the control panel are turned on. The DC power supply generates +5 V, +24 VR, and +24 VU for the DC controller PCB.

When the power switch is turned off, power to the DC controller PCB is cut; to back up data on error codes (E000, E001, E002, E003), the copier uses a litium battery (BAT1) located within the DC controller circuit; using the battery, the appropriate error information will be indicated on the control panel when the power is returned, informing the presence of an error associated with the fixing heater.

⚠ Caution:
Replace the lithium battery only with the one listed in the Parts Catalog. Use of a different battery may present a risk of fire or explosion. The battery may present a fire or chemical burn hazard if mistreated. Do not recharge, disassemble, or dispose of it in fire.
Keep the battery out of reach of children and discard any used battery promptly.

Reference:

The tolerances allowed for the DC voltage are as follows:

- +5 V ±5%
- +24 VR ±5%
- +24 VU ±12.5%

However, 24VR is designed as a 2-mode switch;

- during copying: 24 V ±5%
- during standby: 18 V ±10%

Moreover, the above values apply on the condition that the AC input tolerances are between -15% and +10%.

COPYRIGHT © 1995 CANON INC.

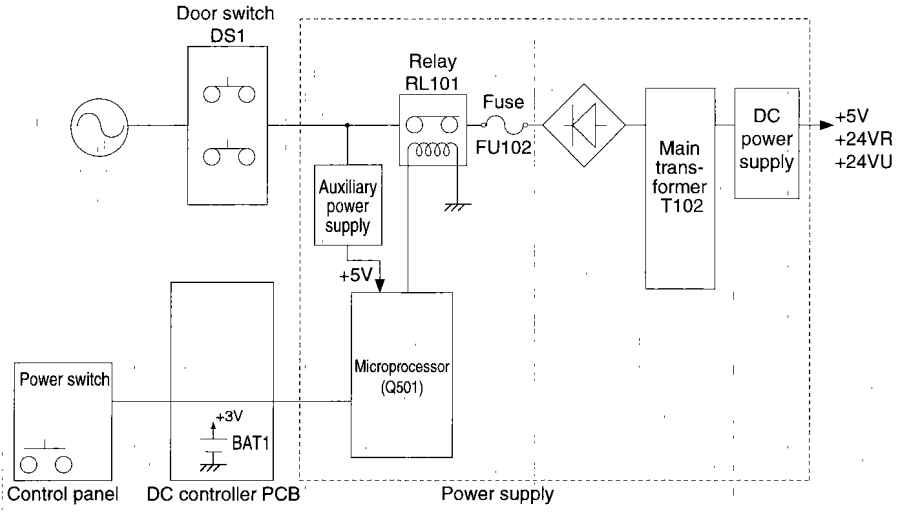


Figure 3-602

COPYRIGHT © 1995 CANON INC.
CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

C. Detecting Errors by the Composite Power Supply PCB

The copier's composite power supply PCB is equipped with a microprocessor (Q501) which serves to run a self diagnosis program to check the output from each power supply and its communications with the DC controller PCB.

When an error occurs, the microprocessor communicates with the DC controller PCB so that the results of self diagnosis may be indicated in the display on the control panel.

1. Overcurrent (low voltage)

If the composite power supply PCB finds an error in a DC load, it will turn off the relay (RL101) to cut off the AC input.

2. Error in the Control Value (high voltage)

If the composite power supply PCB finds that the difference between the setting and the actual value of either of the following voltages is not as specified, it will indicate 'E064' on the control panel.

- primary DC bias
- developing DC bias
- transfer bias

3. Error in the Control Value (low voltage)

If the composite power supply PCB finds that the difference between the setting for +24 V of the DC output and the control value is not as specified, it will indicate 'E803' on the display of the control panel.

4. Error in the Communication with the DC Controller

If the DC controller PCB finds an error in the communication between the DC controller PCB and the composite power supply PCB, 'E240' will appear in the display of the control panel for about 4 sec; thereafter, the relay (RL101) is turned off to cut off the AC input.

D. Protection Mechanism of the Power Supply Circuit

The composite power supply PCB has an overcurrent detection function which turns on to stop the output.

When the output has stopped, it may be reset by opening the copier's top unit, correcting the load, and turning on the power switch.

The built-in fuse (FU102), however, will blow if loads are repeatedly short circuited and reset.

COPYRIGHT © 1995 CANON INC.

VII. ADF

A. Outline

The ADF picks up the originals stacked on the original tray starting with the topmost original, moves them through the copyboard, and delivers them.

See Figure 3-701 for an outline of the feeding route.

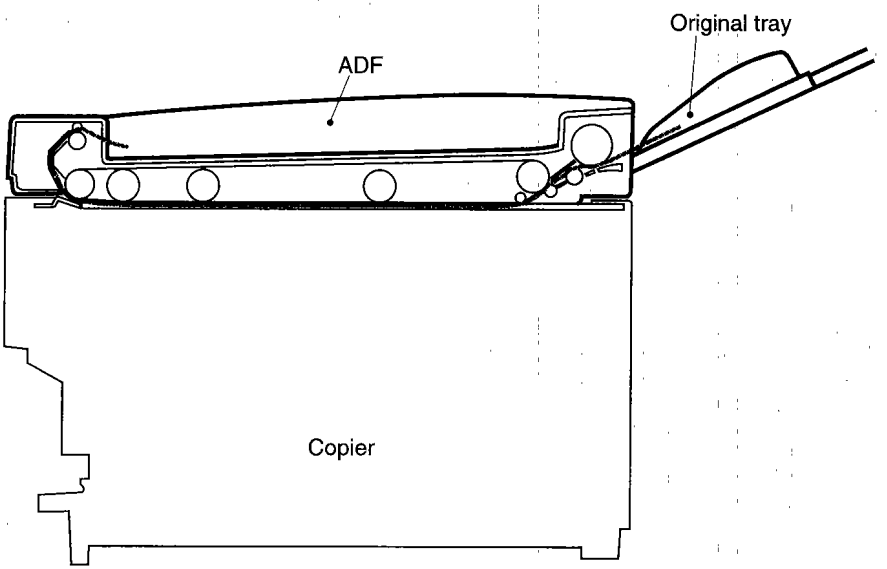


Figure. 3-701

COPYRIGHT © 1995 CANON INC.
CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

B Basic Construction

1. Outline of the Electric Circuitry

The ADF's major electrical mechanisms are controlled by the CPU on the ADF controller PCB.

The CPU on the ADF controller PCB reads the signals from the sensors and the copier and generates signals to drive the motor at such times as programmed in advance.

The copying modes selected on the copier are communicated to the ADF in serial, and the ADF communicates to the copier the state of feeding originals to the copier in serial. (It does not use an IC for communications.)

[Input block] [Control block] [Output block]

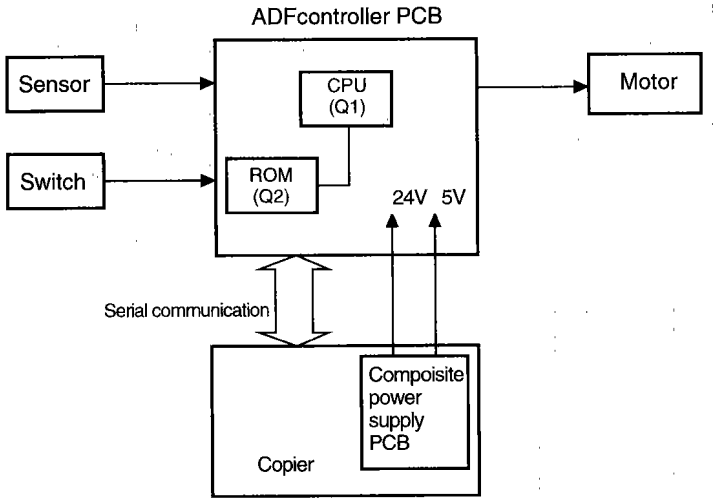


Figure 3-702

COPYRIGHT © 1995 CANON INC.

2. Inputs to and Outputs from the ADF Controller PCB

a. Inputs to and Outputs from the ADF Controller PCB (1/1)

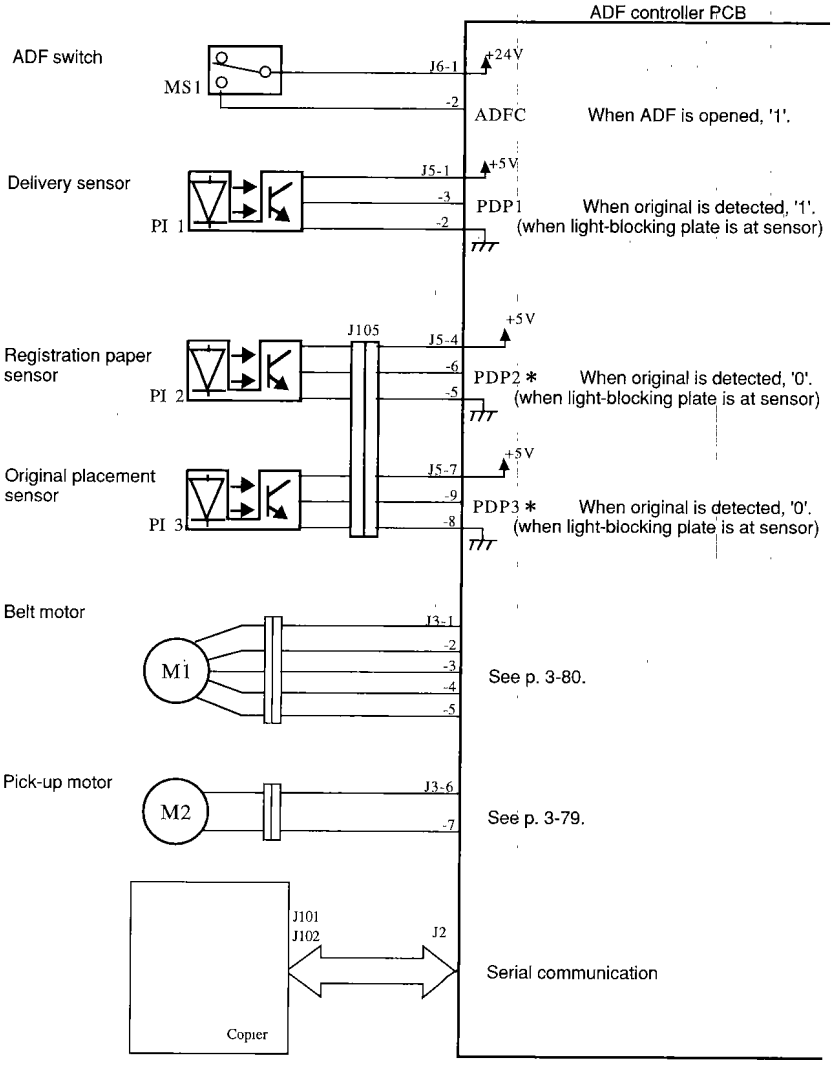


Figure 3-703

COPYRIGHT © 1995 CANON INC.
CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

B. Basic Operations

1. Outline

The ADF uses two motors for picking up and delivering originals. The pick-up motor (M2) is used to pick up originals, and the belt motor (M1) is used to move, stop, and deliver originals.

Further, the ADF is equipped with three sensors for monitoring the movement of originals.

The ADF is designed to accommodate one-sided original copying mode only.

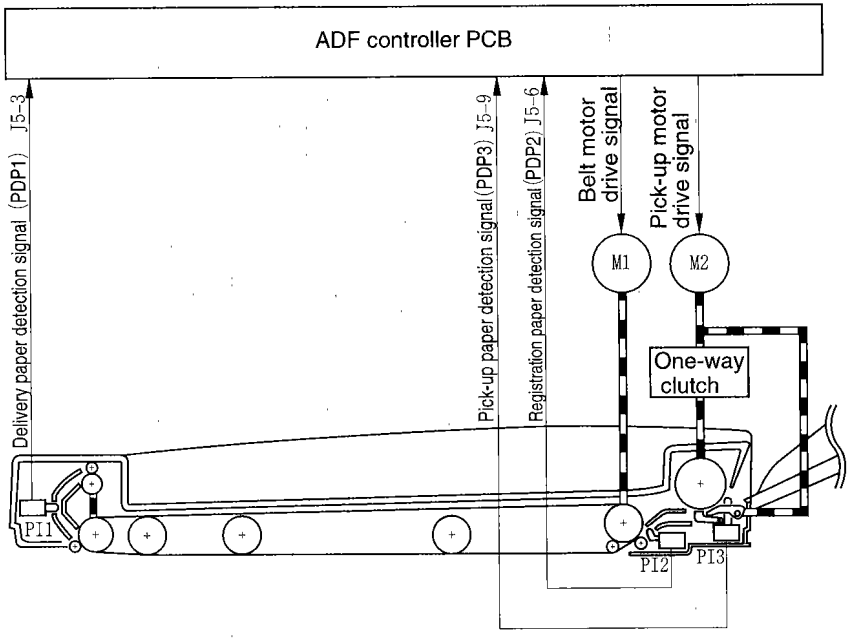


Figure 3-704

COPYRIGHT © 1995 CANON INC.

2. One-Sided Original Mode

The ADF picks up originals stacked on the original tray starting with the topmost original; after it picks up an original, it places it on the copyboard glass for copying, moves it away from the copyboard glass, and delivers it to the copyboard glass.

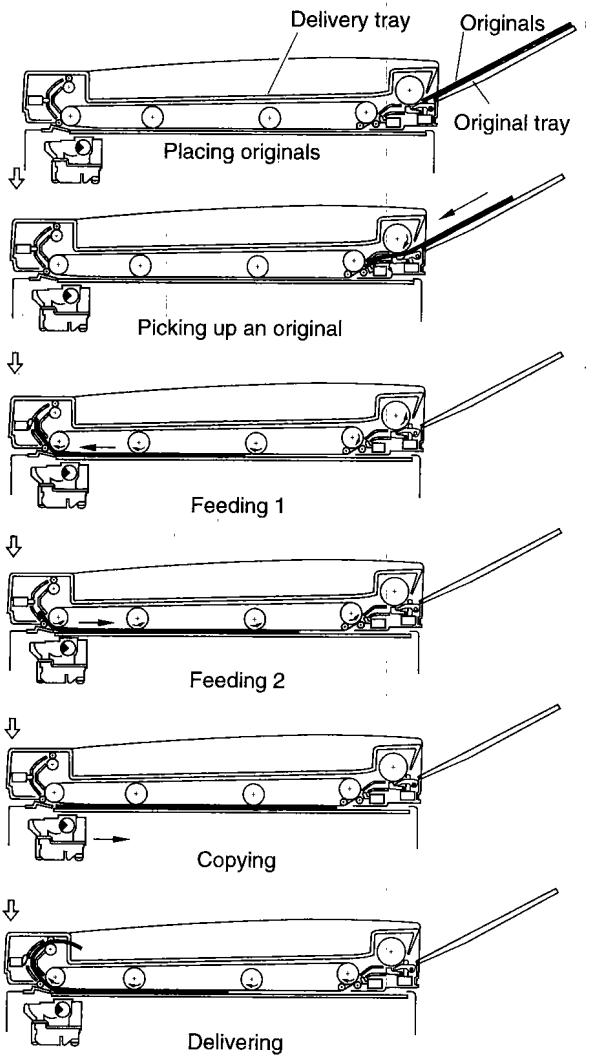


Figure 3-705

COPYRIGHT © 1995 CANON INC.
CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

C. Detecting an Original

1. Outline

The ADF's original detection mechanism has the following two functions:

1. Detecting the Presence/Absence of an Original
   Checks whether there is an original on the original tray.
2. Identifying the Length of the Original
   Checks the length of the original placed on the original tray.
2. Detecting the Presence/Absence of an Original
   The original placement sensor (PI3) is used to check the presence/absence of an original.

When an original is placed on the original tray, the original placement sensor (PI3) sends the original detection signal (PDP3) to the ADF controller PCB in response to the movement of the detecting lever away from the sensor.

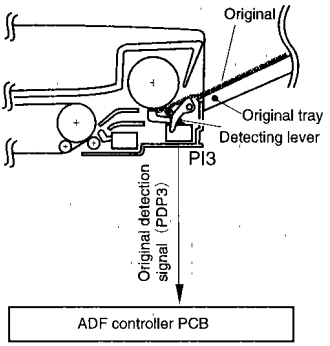


Figure 3-706

3. Identifying the Length of the Original

The registration paper sensor (PI2) is used to identify the length of the original, if any.

The ADF controller computes the length of the original based on the time it takes for the original to move past the registration paper sensor (PI2).

Using the result of the computation, the ADF controller determines whether the size of the original is A4/LTR or smaller or LGL, thereby switching to the appropriate ADF operation.

Table 3-701 shows the lengths of original that determines ADF operation sequence.

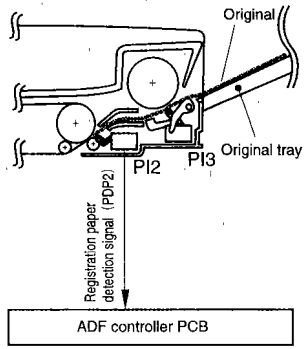


Figure 3-707

Original Lengths and Operation Sequences

Length	Sequence
~313mm	For A4/LTR originals
314mm~	For LGL originals

Table 3-701

D. Pick-Up Operation

1. Operation

When an original is placed on the original tray and the Copy Start key is pressed, the following sequence of operations takes place:

1 Preparing for Pick-Up Operation

When an original is placed on the original tray, i.e., the original placement sensor (PI3) turns ON, the pick-up roller rotates counterclockwise and the paper guide holds the original in place.

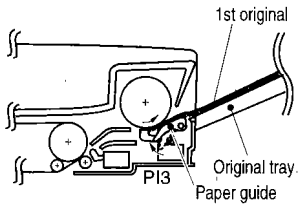


Figure 3-708

2 Pick-Up Separation

When the Copy Start key is pressed, the pick-up roller rotates clockwise, and picks up the first original (topmost) and forwards it as far as the registration roller. (The separation pad ensures that only one original is picked up.)

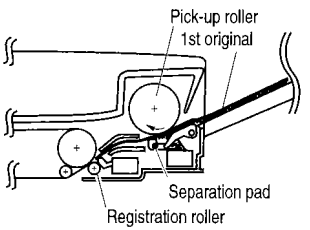


Figure 3-709

3 Arching

The first original is butted against the registration roller so that it arches.

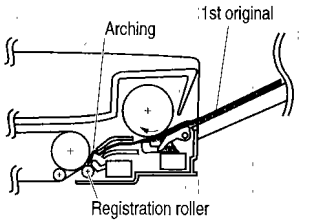


Figure 3-710

4 Feeding Operation 1

The feeding belt is moved so that the leading edge of the first original comes into contact with the delivery sensor (PI1). (In the case of a LGL original, the original is moved about 15 mm farther after it has come into contact with the delivery sensor.)

At the same time, the pick-up motor (M2) is rotated counterclockwise to prepare for picking up the second original.

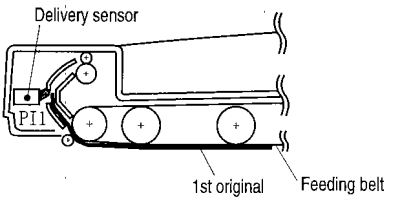


Figure 3-711

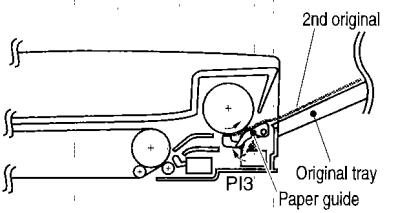


Figure 3-712

COPYRIGHT © 1995 CANON INC.
CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

5 Feeding 2
The feeding belt is moved counterclockwise so that the first original is stopped at a specific location on the copyboard glass.

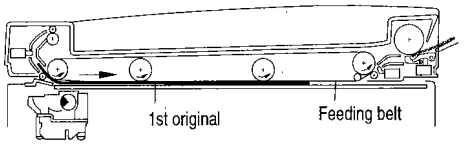


Figure 3-713

6 Moving the Scanner and Picking Up the Second Original
The scanner starts to move forward after the original has been stopped at a specific location on the copyboard glass.
If the original is A4/LTR or smaller, the pick-up motor (M2) is also rotated clockwise to pick-up the second original and butt it against the registration roller.
If the original is LGL, the second original is picked up after the scanner has been moved forward.

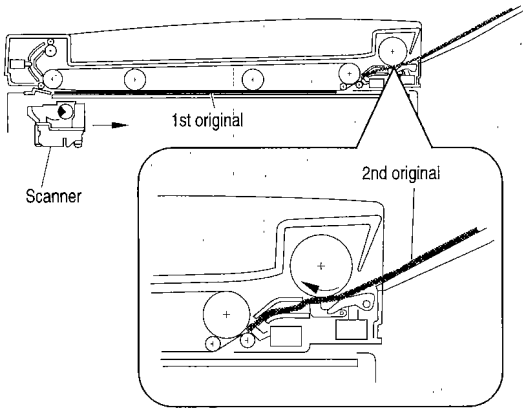


Figure 3-714

COPYRIGHT © 1995 CANON INC.

2. Sequence of Pick-Up Operations (A4/LTR, 2 originals)

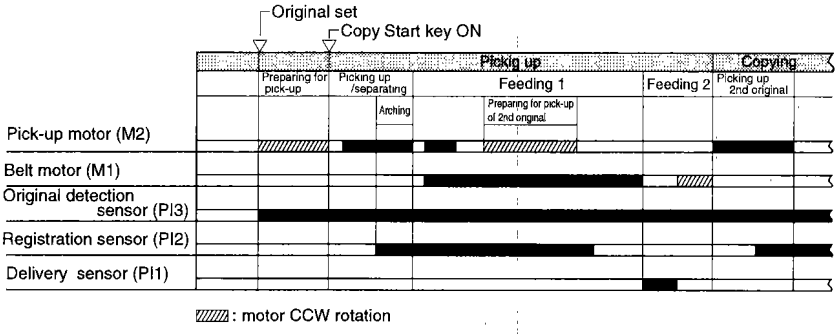


Figure 3-715

3. Sequence of Operations (LGL, 2 originals)

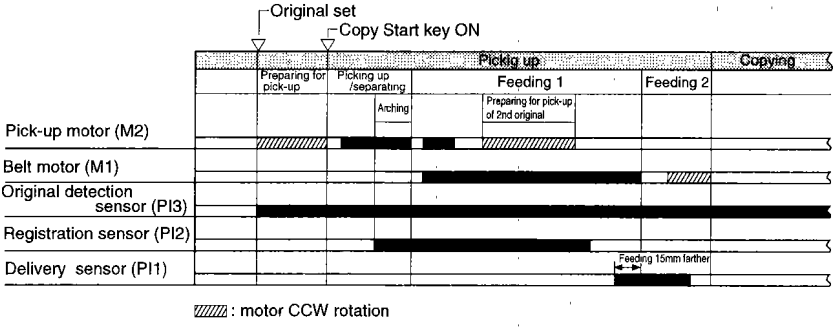


Figure 3-716

COPYRIGHT © 1995 CANON INC.
CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

E. Delivery

1. Operations

The ADF operates as follows to deliver originals from the copyboard glass:

1 Delivery Feeding

The feeding belt is moved to feed and deliver the first original on the copyboard glass. At the same time, the pick-up motor (M2) moves the second original to the copyboard glass.

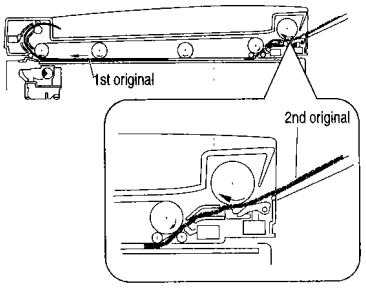


Figure 3-717

2 Delivering to the Delivery Tray

The ADF switches the belt motor to low speed as soon as the trailing edge of the original moves past the delivery sensor (PI1), thereby delivering the original slowly.

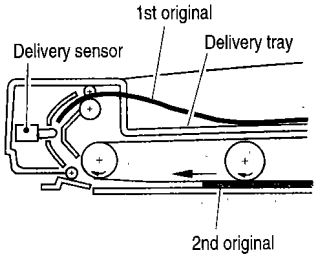


Figure 3-718

COPYRIGHT © 1995 CANON INC.

2. Sequence of Operations (A4/LTR, 2 originals)

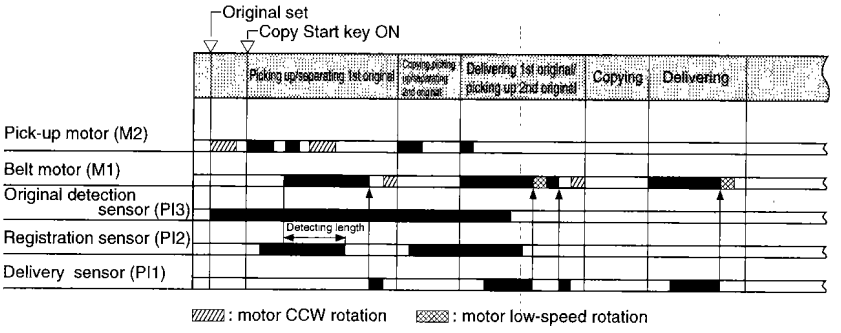


Figure 3-719

3. Sequence of Operations (LGL, 2 originals)

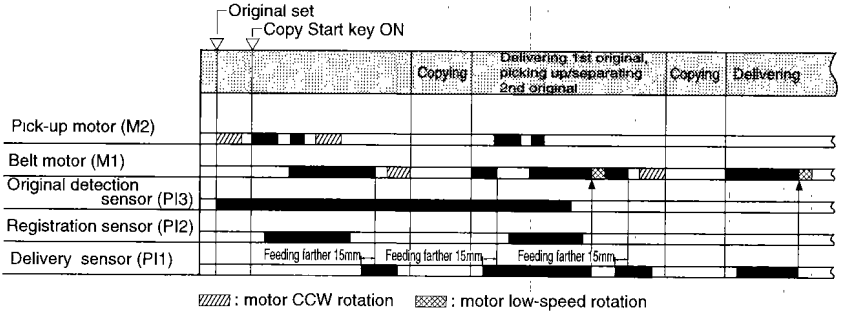


Table 3-720

COPYRIGHT © 1995 CANON INC.
CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

F. Controlling the Pick-Up Motor

1. Outline

Figure 3-720 is a diagram of the control circuit for the pick-up motor (M2).

The pick-up motor is a DC motor.

The CPU (Q1) on the ADF controller PCB sends the motor drive signals PM0 and PM1 to the motor driver (Q5). The pick-up motor rotates clockwise or counterclockwise according to the combinations of the states of these two signals. (Table 3-702 shows how the pick-up motor rotates for each combination.)

The motor driver is equipped with a limiter function, preventing overcurrent from flowing into the motor. When an overcurrent occurs, the limiter function cuts off the motor drive current, thereby preventing damage to the motor.

When the limiter function is activated, the pick-up motor cannot rotate as controlled, possibly leading to pick-up faults. Any pick-up fault causes the ADF controller to flash the JAM indicator on the copier and stop the pick-up motor at the same time.

Motor drive signal (PM0)	Motor drive signal (PM1)	Pick-up roller rotation
'1'	'1'	Braked
'1'	'0'	Picking up
'0'	'1'	Delivering
'0'	'0'	At reset (free)

Table 3-702

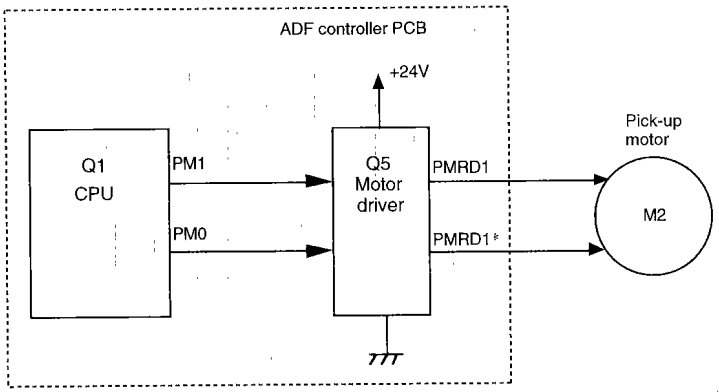


Figure 3-720

COPYRIGHT © 1995 CANON INC.

G. Controlling the Belt Motor

1. Outline

Figure 3-721 is a diagram showing the control circuit for the belt motor (M2).

The belt motor is a 4-phase control stepping motor.

The CPU (Q1) on the ADF controller PCB sends control pulse signals (A, A*, B, B*) to the motor driver (Q4).

In response, the motor driver changes the output timing of the pulse signals (MA, MA*, MB, MB*) used for driving the motor to rotate the belt motor clockwise or counterclockwise.

The motor driver is equipped with a limiter function used to keep the motor supplied with a specific current so that current greater than specified will not flow.

If loads large enough to activate the limiter function occur in succession, the belt motor cannot rotate as specified, possibly leading to feeding faults. Any feeding fault will cause the ADF controller to flash the Jam indicator on the controller and stop the belt motor at the same time.

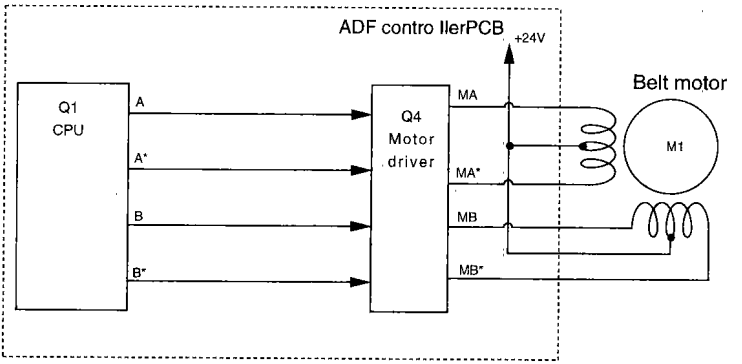


Figure 3-721

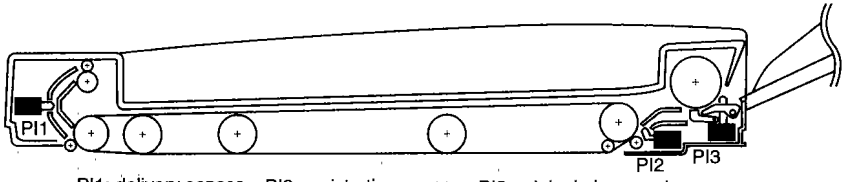
COPYRIGHT © 1995 CANON INC.
CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

H. Detecting Original Jams

The ADF is equipped with three jam sensors (PI1 through PI3) as indicated in Figure 3-722 to monitor the movement of originals.

The movement of originals are checked at such times as programmed in the CPU on the ADF controller PCB; a jam is identified in relation to the presence of an original at each sensor.

Table 3-703 describes the type of jam, condition of detection, and sensors involved.



PI1: delivery sensor PI2: registration sensor PI3: original placement sensor

Figure 3-722

Type of Original Jam and Condition of Detection

Operation	Type of jam	Sensor	Conditions
Pick-up	Residual original	PI 1, PI 2	When the 1st original is separated, the delivery sensor (PI1) turns on while the belt motor rotates for 300 ms or less or before the registration sensor (PI2) turns on. When the 1st original is picked up, the registration sensor (PI2) and the delivery sensor (PI1) turn on.
	Original present at start	PI 1, PI 2	When separation starts, the registration sensor (PI2) or the delivery sensor (PI1) are on.
	Separation delay	PI 2	When separation starts, the registration sensor (PI2) does not turn on after 2 sec.
	Pick-up delay	PI 2	When pick-up starts, the registration sensor (PI2) does not turn off after feeding the original for about 500 mm.
Delivery	ADF open	MS1	The ADF is opened while in operation.
	Delivery delay jam	PI 1, PI 2	When delivery starts, the delivery sensor (PI1) does not detect an original that has been fed about 100 mm. After the registration sensor (PI2) has turned off, the delivery sensor (PI1) does not detect an original that has been fed for about 500 mm.
	Delivery stationary jam	PI 1	During pick-up, the delivery sensor (PI1) remains on even when the original is fed for 'length + about 60 mm'.

Table 3-703

COPYRIGHT © 1995 CANON INC.

I. Power Supply

1. Outline

Figure 3-723 shows the routes of power supply.

The ADF is supplied by the copier with 5 V and 24 V. The 24V supply is cut off when the ADF is opened, i.e., when the ADF switch (MS1) turns off. The 5V supply will continue to keep each sensor powered even when the ADF is opened.

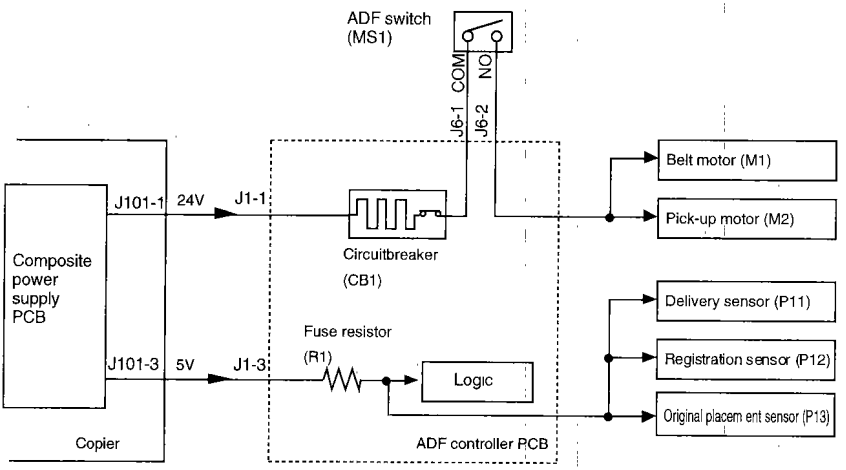


Figure 3-723

COPYRIGHT © 1995 CANON INC.
CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

VIII. STANDARDS AND ADJUSTMENTS

1. Actions to Take After Replacement

Part	Work	Remarks
Scanning lamp	1. Adjust the intensity of the scanning lamp. 2. Execute AE adjustment.	
Intensity/AE sensor PCB	1. Adjust the intensity of the scanning lamp. 2. Execute AE adjustment	
Composite power supply PCB	1. Adjust the intensity of the scanning lamp. 2. Execute AE adjustment. 3. Execute measurement voltage correction for APVC (PW_OFST). 4. Execute measurement current correction for APVC (IP_ADJ).	
Pre-exposure lamp	1. Adjust the pre-exposure lamp output. (PREX_LP)	
DC controller PCB	1. Adjust the intensity of the scanning lamp. 2. Execute AE adjustment. 3. Adjust the image leading edge non-image width (LE_BLANK). 4. Adjust the image leading edge margin (REGST). 5. Execute primary charge output voltage correction (PRIMARY).* 6. Execute APVC measurement current correction (IP_OFST).* 7. Execute measurement voltage correction for APVC (PW_OFST). 8. Execute measurement current correction for APVC (IP_ADJ). 9. Execute ratio fine adjustment (LENS_ADJ). 10. Execute pre-exposure lamp output adjustment (PREX_LP).	*: Only if the model is not equipped with the automatic indication of drum cartridge replacement time.
Drum unit	1. Execute primary corona output voltage correction (PRIMARY). 2. Execute measurement voltage correction for APVC (PW_OFST).	Only if the model is not equipped with the automatic indication of drum cartridge replacement time.
ADF controller PCB	1. Execute original leading edge stop position.	NP6012F/NP6212 only.

Table 3-801

COPYRIGHT © 1995 CANON INC.

2. Adjusting the Intensity of the Scanning Lamp

Adjust the intensity of the scanning lamp whenever you have replaced any of the following parts:

- DC controller PCB
- composite power supply PCB
- AE/intensity sensor PCB
- scanning lamp

1) Set the density correction dial (VR107) to the center notch.

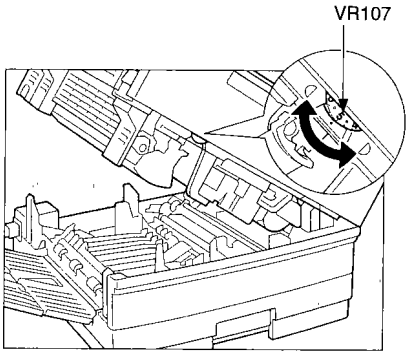


Figure 3-801

2) Turn off the AE mechanism, and set the copy density adjusting lever to the center notch.
3) Place the Test Chart (NB-3, NA-2, NA-3) on the copyboard, and make copies.
4) Turn VR101 on the DC controller PCB fully counterclockwise.
5) Turn VR101 on the DC controller PCB so that gray scale No. 9 is barely visible.

Caution:
Check gray scale No. 10 if you are using NB-3.
If you have turned VR101 fully clockwise, turn it fully counterclockwise before making adjustments once again.

Direction of VR101 and Copy Density

Direction	Density
Clockwise	Darker
Counterclockwise	Lighter

Table 3-802

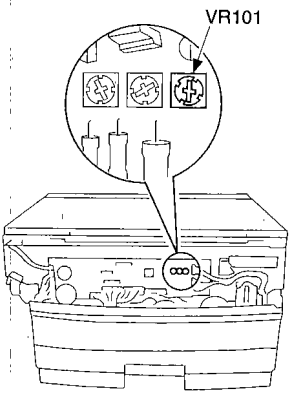


Figure 3-802

3. AE Adjustment

Execute AE adjustment whenever you have replaced any of the following parts:

- DC controller PCB
- Composite power supply PCB
- AE/intensity sensor PCB
- scanning lamp

Preparing for Adjustment

- Obtain a newspaper with even density; avoid one with photos and large titles.
- Obtain five sheets of copy paper.
- Make sure that the intensity of the scanning lamp has been properly adjusted.

COPYRIGHT © 1995 CANON INC.

1) Turn on the copier.
2) Short the two jumper wires (JP3, JP4) on the DC control PCB with a screwdriver.
   • The ratio/count indicator indicates 'F'.

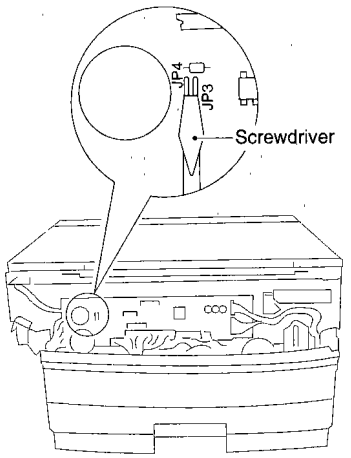


Figure 3-803

3) Stop shorting the jumpers; then, using the +/- key, bring up '40' on the ratio/count indicator, and press the Start key.
   • The scanning lamp will turn on, and the main motor (M1) will start to rotate.
4) Turn VR103 on the DC controller PCB fully clockwise.

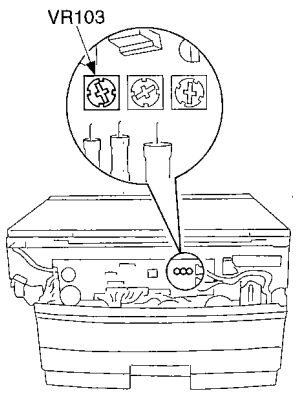


Figure 3-804

5) Place a newspaper on the copyboard, and close the copyboard cover.
6) Adjust VR102 so that the indication in the display is b2 through bc.

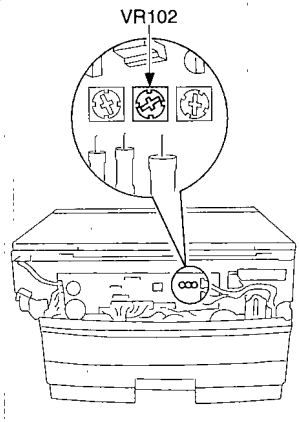


Figure 3-805

7) Remove the newspaper from the copyboard, and place a stack of five sheets of copy paper on the copyboard glass in its place; then, close the copyboard glass.
8) Adjust VR103 on the DC controller PCB so that the indication on the control panel is 53 through 5d.

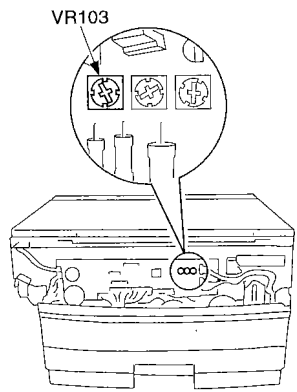


Figure 3-806

COPYRIGHT © 1995 CANON INC.

9) Make a copy, and make sure that it is free of fogging yet its text is dark enough.
   - If the copy is foggy or the text density is too light, repeat starting with step 1).
   - If no change is noted in the results after re-adjustment, make further adjustments using the density correction dial (VR107).

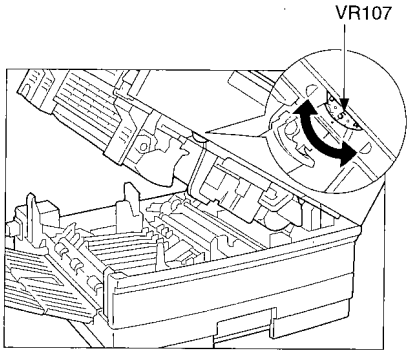


Figure 3-807

4. Leading Edge Non-Image Width

Make this adjustment whenever you have replaced the following:
- DC controller PCB

Make sure that the leading edge non-image width is 2.0 ±1.5 mm when the Test Chart is copied.

Caution:
You must adjust the image leading edge margin whenever you have made this adjustment.

Figure 3-808

Making Adjustments

1) Select '31' in service mode; then, using the +/- key, change the setting in the count/ratio indicator, and press the AE key.
   - The setting may be between 0 and 99.
   - The default is 32.

Relationship between the Setting and the Image Leading Edge Non-Image Width

Setting	Image leading edge non-image width
High	Increases
Low	Decreases

Table 3-803

2) After making the adjustment, record the new setting on the service label attached behind the control panel.

COPYRIGHT © 1995 CANON INC.

5. Image Leading Edge Margin (registration on timing)

Make this adjustment whenever you have replaced the following:

- DC controller PCB

Make sure that the leading edge margin is 1.0 and 4.0 mm when the Test Chart is copied.

Caution:

You must make sure that the image leading edge non-image width is within the standard before making this adjustment.

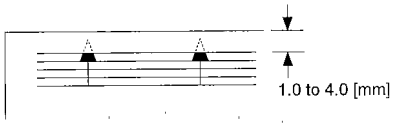


Figure 3-809

Making Adjustments

1) Select '30' in service mode; then, using the +/- key, change the setting in the count/ratio indicator, and press the AE key.
   - The setting may be between 0 and 99.
   - The default is 14.

Relationship between the Setting and the Image Leading Edge Non-Image Width

Setting	Image leading edge non-image width
High	Increases
Low	Decreases

Table 3-804

2) After making the adjustment, record the new setting on the service label attached behind the control panel.

6. Primary Corona Output Voltage Correction (model without automatic indication of drum unit replacement time only)

Execute this adjustment whenever you have replaced the following:

- DC controller PCB
- drum unit

Making Adjustments

- After Replacing the DC Controller PCB

1) Select '32' in service mode; then, using the +/- key, enter the setting 'PRIMARY' recorded on the service label attached behind the control panel in the count/ratio indicator, and press the AE key.
   - The setting may be between 0 and 30.

2) Turn off and then on the copier.

- After Replacing the Drum Unit

1) Select '32' in service mode; then, using the +/- key, enter the setting 'PRIMARY' recorded on the service label attached behind the control panel in the count/ratio indicator, and press the AE key.
   - The setting may be between 0 and 30.

2) Turn off and then on the copier.

3) After making the adjustment, record the new setting on the service label attached behind the control panel.

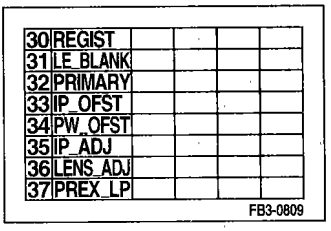


Figure 3-810

COPYRIGHT © 1995 CANON INC.

7. APVC Measurement Current Correction (model without automatic indication of drum unit replacement time only)

Execute this adjustment whenever you have replaced the following:

- DC controller PCB
- drum cartridge

Making Adjustments

- After Replacing the DC Controller PCB

1) Select '33' in service mode; then, using the +/- key, enter the setting 'IP_OFST' recorded on the service label attached behind the control panel in the count/ratio indicator, and press the AE key.
   - The setting may be between 0 and 99.

2) Turn off and then on the copier.

- After Replacing the Drum Cartridge

1) Select '33' in service mode; then, using the +/- key, enter the setting 'IP_OFST' recorded on the service label attached to the drum cartridge in the count/ratio indicator, and press the AE key.
   - The setting may be between 0 and 99.

2) Turn off and then on the copier.

3) After making the adjustment, record the new setting on the service label attached behind the control panel.

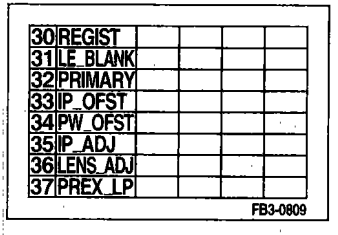


Figure 3-811

8. Measurement Voltage Correction for APVC

Make this adjustment whenever you have replaced the following:

- DC controller PCB
- composite power supply PCB

Making Adjustments

- After Replacing the DC Controller PCB

1) Select '34' in service mode; then, using the +/- key, enter the setting 'PW_OFST' recorded on the service label attached behind the control panel in the count/ratio indicator, and press the AE key.
   - The setting may be between 0 and 30.
   - The default is 15.

2) Turn off and then on the copier.

3) After making the adjustment, execute user mode 'U7'.

- After Replacing the Composite Power Supply PCB

1) Select '34' in service mode; then, using the +/- key, enter the setting 'PW_OFST' recorded on the service label attached to the composite power supply PCB in the count/ratio indicator, and press the AE key.
   - The setting may be between 0 and 30.,
   - The default is 15.

2) Turn off and then on the copier.

3) After making the adjustment, record the new setting on the service label attached behind the control panel.

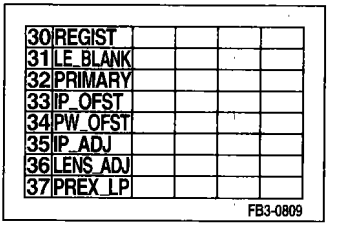


Figure 3-812

COPYRIGHT © 1995 CANON INC.

4) After making the adjustment, execute user mode 'U7'. (This step applies only if the machine is equipped with the drum unit replacement time automatic indication function.)

9. Measurement Current Correction for APVC

Make this adjustment whenever you have replaced the following:

- DC controller PCB
- composite power supply PCB

Making Adjustments

- After Replacing the DC Controller PCB

1) Select '35' in service mode; then, using the +/- key, enter the setting 'IP_ADJ' recorded on the service label attached behind the control panel, and press the AE key.
   - The setting may be between 0 and 30.
   - The default is 15.

2) Turn off and then on the copier.

- After Replacing the Composite Power Supply PCB

1) Select '35' in service mode; then, using the +/- key, enter the setting 'IP_ADJ' recorded on the service label attached to the composite power supply PCB in the count/ratio indicator, and press the AE key.
   - The setting may be between 0 and 30.
   - The default is 15.

2) Turn off and then on the copier.

3) Record the new setting under 'IP_ADJ' on the service label.

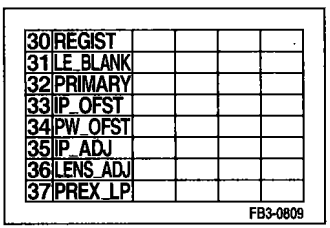


Figure 3-813

10. Reproduction Ratio Fine Adjustment

Make this adjustment whenever you have replaced the following:

- DC controller PCB

Making Adjustments

1) Select '36' in service mode; then, using the +/- key, enter the setting 'LENS_ADJ' recorded on the service label, and press the AE key.
   - The setting may be between 0 and 30.
   - The default is 15.

2) Turn off and then on the copier.

11. Pre-Exposure Lamp Output Adjustment

Make this adjustment whenever you have replaced the following:

- DC controller PCB
- Pre-exposure lamp

Making Adjustments

- After Replacing the DC Controller PCB

1) Select '37' in service mode; then, using the +/- key, enter the setting 'PREX_LP' recorded on the service label, and press the AE key.
   - The setting may be between 0 and 99.
   - The default is 50.
2) Turn off and then on the copier.
3) After making the adjustment, execute user mode 'U7'.

- After Replacing the Pre-exposure lamp

1) Select '37' in service mode; then, using the +/- key, enter the setting recorded on the label attached to the replaced pre-exposure lamp, and press the AE key.
   - The setting may be between 0 and 99.
   - The default is 50.
2) Turn off and then on the copier.

COPYRIGHT © 1995 CANON INC.

3) After making the adjustment, record the new setting on the service label attached behind the control panel.

30	REGIST				
31	LE_BLANK				
32	PRIMARY				
33	IP_OFST				
34	PW_OFST				
35	IP_ADJ				
36	LENS_ADJ				
37	PREX_LP				

FB3-0809

Figure 3-814

4) After making the adjustment, execute user mode 'U7'. (This step applies only if the machine is equipped with the drum unit replacement time automatic indication function.)

12. Adjust the Original Leading Edge Stop Position

You must first correct original skew and adjust the rear/front original stop position before adjusting the original leading edge stop position.

1) Obtain a sheet of A4 or LTR white copy paper, and draw two lines as indicated.
   • The sheet will be used as a test chart.

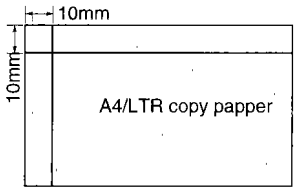


Figure 3-815

2) Remove the screw, and remove the ADF controller cover.

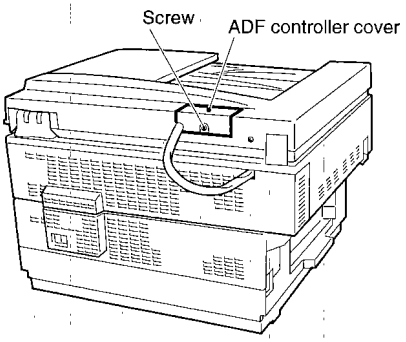


Figure 3-816

3) Turn on the copier, and place the test chart prepared in step 1) on the original tray.

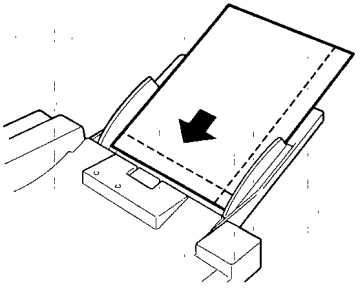


Figure 3-817

COPYRIGHT © 1995 CANON INC.
CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

4) Press the Copy Start key to make a copy.
5) Check to make sure that he distance L4 on the copy image indicated is 10 +2.0, -2.5 mm (standard) or less.

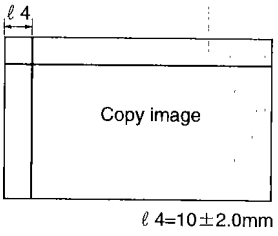


Figure 3-818

6) If the distance is not as specified, shift bit 1 of the DIP switch (SW1) on the ADF controller PCB to ON, and place an A4 or LTR white copy paper on the original tray.

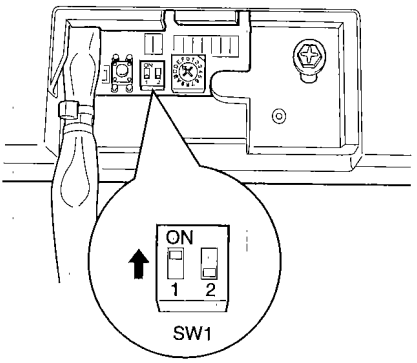


Figure 3-819

7) Press the push switch (PSW) on the ADF controller PCB.
   • The copy paper will be picked up from the original tray and stopped on the copyboard glass.

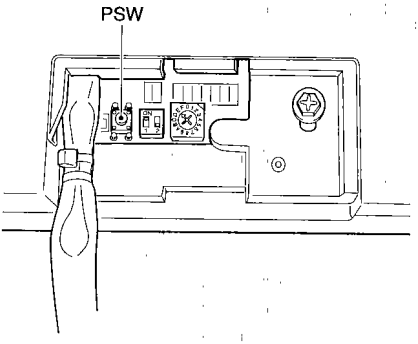


Figure 3-820

8) Use the rotary switch (SW2) on the ADF controller PCB to adjust the original leading edge stop position.
   Moving the rotary switch by a single notch changes the original stop position by about 0.3 mm.
   Press the push switch (PSW) after deciding on a position to discharge the copy paper and store the optimum value.

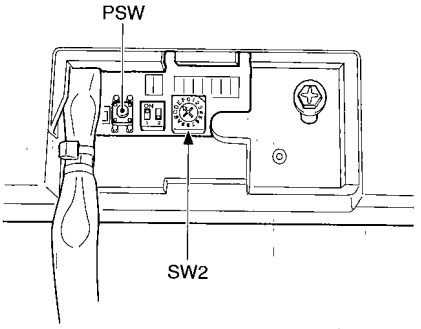


Figure 3-821

COPYRIGHT © 1995 CANON INC.

Relationship between Rotary Switch Direction and Original Position

Direction of rotary switch	Position (shift) of original
Clockwise	Toward leading edge
Counterclockwise	Toward trailing edge

Table 3-805

■ Example

If L4 is 13 mm,

You must shift the original stop position toward the leading edge by 3 mm.

1) Place a sheet of A4 or LTR white copy paper on the original tray.
2) Shift bit 1 of the DIP switch (SW1) on the ADF controller PCB (SW1) to ON; then, push the push switch (PSW) to pick up the copy paper.

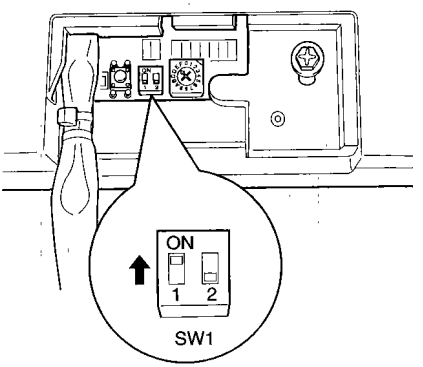


Figure 3-822

3) Turn the rotary switch (SW2) on the ADF controller PCB clockwise by 10 notches.

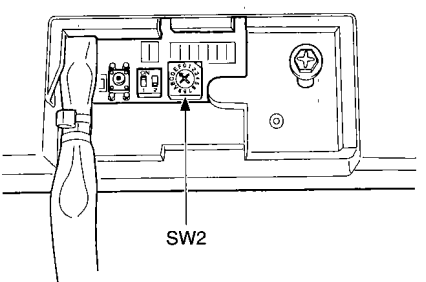


Figure 3-823

4) Press the push switch (PSW) on the ADF controller PCB.
   - The copy paper on the copyboard will be discharged, and the optimum value will be stored.

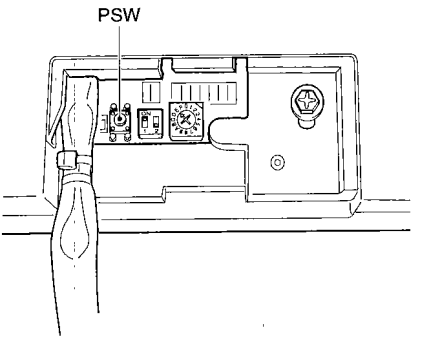


Figure 3-824

13. Checking the Photointerrupters

1) Set the meter to the 12VDC range.
2) Connect the probe ① of the meter to GND the grounding terminal ② on the DC controller PCB.

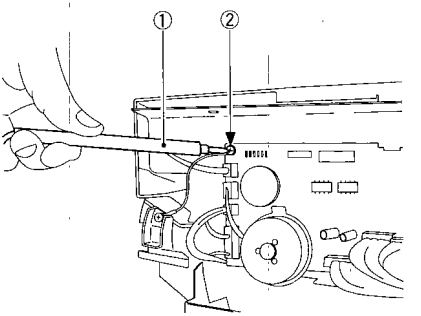


Figure 3-825

3) Make checks according to the instructions.

Reference:

The photointerrupters other than those indicated are connected in a matrix

 COPYRIGHT © 1995 CANON INC. CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

No.	PS1		PS2	
Name	Scanner home position sensor (SCHP)		Lens home position sensor (LHP)	
+ probe	J101-1		J109-9	
Normal if as described	Move the scanner by hand while in standby.		Move the lens mount by hand while in standby	
	When the scanner is at home position	When the scanner is not at home position	When the light-blocking plate is over the sensor	When the light-blocking sensor is not over the sensor
Voltage measured by meter (approx.)	0 V	5 V	0 V	5 V

No.	PS4		Q751	
Name	Belt displacement sensor (FFD)		Pre-registration roller sensor (RPD)	
+ probe	J112-1		J108-4	
Normal if as described	Move the detecting lever by hand while in standby		Move the detecting lever by hand while in standby	
	When the light-blocking plate is over the sensor	When the light-blocking sensor is not over the sensor	When the detecting lever is not moved	When the detecting lever is not moved
Voltage measured by meter (approx.)	0 V	5 V	5 V	0 V

Table 3-806

COPYRIGHT © 1995 CANON INC.

IX SERVICE MODE

A. Outline

The copier's service mode may be classified into the following four:

No.	Mode
[30]	Adjustment
[40]	Operation/inspection
[50]	Machine settings
[60]	Counter

Table 3-901

B. Using Service Mode

1. Starting Service Mode

1) Open the copier's top unit, and remove the two screws ①; then, remove the upper front cover ②.

Caution:
A flexible cable for the control panel is connected to the front upper cover; take care not to damage the cable.

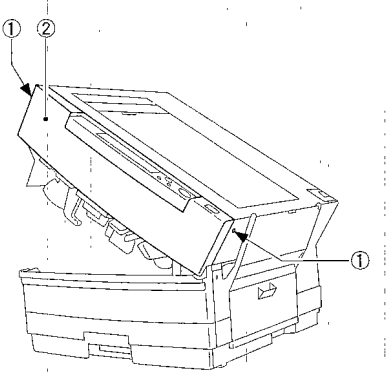


Figure 3-901

COPYRIGHT © 1995 CANON INC.
CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

2) Turn on the copier, and short the jumper wires JP3 and JP4 on the DC controller PCB with a screwdriver.
   • The count/ratio indicator on the control panel turns on 'F'.

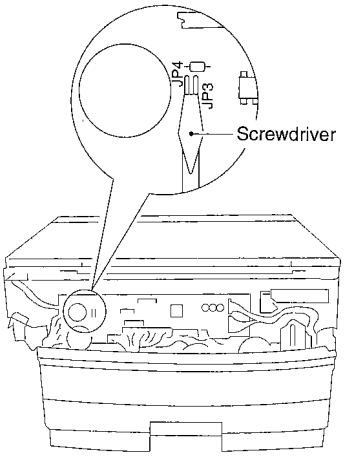


Figure 3-902

3) When 'F' has turned on, stop shorting the jumper wires JP3 and JP4.

2. Ending Service Mode

1) Press the Clear/Stop key.

3. Selecting Items in Service Mode

1) While the count/ratio indicator is indicating 'F', choose the appropriate item by pressing the +/- key.
   • The tens column of the classification number starts to flash.
   • The number changes between 30 and 62 in response to the key operation.
2) Press the Start key to select the item.
   • The flashing classification number changes to the flashing current setting.

4. Using Adjustment Mode and Machine Settings Mode

1) Change the setting by pressing the +/- key.
   • The setting starts to flash.
2) Press the AE key to select the setting.
   • The setting stops flashing and remains on.
   • A press on the Start key starts copying operation. (adjustment mode '30' only)
3) To change the setting once again, repeat steps 1) and 2) without an interruption.
4) Press the Clear/Stop key to return to item selection.

5. Using Operation/Inspection Mode

1) Press the Start key to execute the appropriate service mode.
   • The item number keeps flashing while the mode is being executed.
2) Press the Clear/Stop key so that item selection returns after operation.
   • If the mode is of a type that automatically ends the operation, item selection will return automatically.

6. Resetting a Back-Up Error Code

If 'E000', 'E001', 'E002', or 'E003' is indicated, remove the cause of the error, and reset the error as follows:

1) While shorting the jumper wires JP3 and JP4 on the DC controller PCB with a screwdriver, turn on the copier.
   • The count/ratio indicator turns on 'F'.
2) Turn off and then on the copier to check copying operation.

Caution:

The power turns off automatically upon detection of 'E000, 'E001', 'E002', or 'E003'. If you turn on the power in this condition, the error code in question will appear once again and the power will turn off automatically once again.
To find out which error code turns off the power, perform the foregoing steps after disconnecting the heater connector (J207) from the composite power supply PCB to protect the heater.

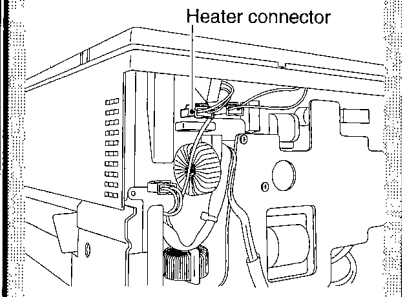


Figure 3-903

COPYRIGHT © 1995 CANON INC.

7. Filling Out the Service Label

Figure 7-4 shows the label attached behind the front upper cover. Each machine is adjusted and set at the factory, and the settings are recorded on the label.

You must correct the settings recorded on the label whenever you have entered new settings.

If you have replaced the DC controller, be sure to enter the settings recorded on the label. Further, if you have replaced the composite power supply PCB or the pre-exposure lamp, you must enter the settings recorded on the label attached to the service label and copy the settings to the service label.

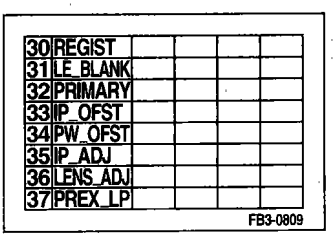


Figure 3-904

COPYRIGHT © 1995 CANON INC.
CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

C. Adjustment Mode

1) Choose an item using the +/- key, and press the Start key to select it.
2) Increase or decrease the setting using the +/- key.
3) Press the AD key to store the setting.
4) If you changed the setting under No. 34 or No. 37 on a machine equipped with the drum unit replacement time automatic display function, turn off and then on the power. When you turn off and then on the power, the main motor will rotate and stop about 1 min later. If the machine is NOT equipped with the function, go to step 5).
5) To clear the Item, press the Clear/Stop key.
6) After changing the setting, record the new setting on the service label.
   - A press on the Start key while a description of service mode is indicated will start copying operation.
7) If you changed the setting of No. 34 or No. 37 on a machine is NOT equipped with the drum unit replacement time automatic display function, execute 'U7 installation/drum unit replacement mode' in user mode.

Item No.	Function	Settings	Description
30	Image leading edge margin adjustment	0~99	A higher setting will delay the copy paper in relation to the image, thereby decreasing the margin. default: 14
31	Image leading edge non-image width	0~99	A higher setting will increase the image leading edge non-image width. default: 32
32	Primary charging output voltage correction value (PRIMARY)	0~30	Use it to enter the setting recorded on the label on the drum cartridge after replacement of the drum cartridge. (You need not enter the setting if the machine has the drum unit replacement time automatic display function.)
33	APVC measurement current correction value (IP_OFST)	0~99	Use it to enter the setting recorded on the drum cartridge after replacement of the drum cartridge. (You need not enter the setting if the machine has the drum unit replacement time automatic display function.)
34	Execute measurement voltage correction for APVC (PW_OFST).	0~30	Use it to enter the setting recorded on the label on the composite power supply PCB after replacement of the composite power supply PCB. default: 15
35	Measurement current correction value at time of APVC (IP_ADJ)	0~30	Use it to record the setting recorded on the label on the composite power supply PCB after replacement of the composite power supply PCB. default: 15
36	Reproduction ratio fine adjustment (LENS_ADJ)	0~30	Use it to enter the setting recorded on the label on the service label attached behind the control panel after replacement of the DC controller PCB. default: 15
37	Pre-exposure lamp output adjustment value (PREX_LP)	0~99	Use it to enter the setting recorded on the label on the pre-exposure lamp after replacement of the pre-exposure lamp. default: 50

Table 3-902

COPYRIGHT © 1995 CANON INC.

D. Operation/Inspection Mode

1) Choose the appropriate item using the +/- key, and press the Start key to select it.
2) Press the Start key to execute the operation.
3) To stop, press the Clear/Stop key.
   • If the mode is of a type that automatically stops operation, item selection will return automatically after the operation.

Item No.	Function	Description
40	AE adjustment check mode	The scanning lamp turns on, the main motor rotates, and the AE sensor setting appears.
41	Toner supply mode	Use it when replacing the developing assembly. Toner is stirred and supplied to the developing assembly. The operation stops automatically after about 10 to 60 sec.
42	Back-up RAM clear	Operation 1) Using the +/- key, select No. 42. • '4' flashes. 2) Press the Start key to select the appropriate item. • '42' flashes. 3) Press the AE key. • The indication changes to 'EE'. 4) Press the Start key. • The indication changes to '42', and '4' flashes. 5) Turn off and then on the power switch. • The backup RAM will be cleared, and the default settings will be stored to all adjustment modes and No. 50 and No. 51 of machine settings mode. • The indication changes to flashing '1' (if paper exists in the cassette) and the main motor rotates for about 1 min and stops. **Reference:** To stop clearing the RAM, press the Clear/Stop key before moving to step 4).

Table 3-903

COPYRIGHT © 1995 CANON INC.
CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

E. Machine Settings Mode

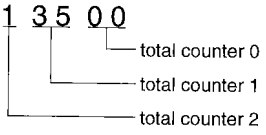
1) Choose the appropriate item using the +/- key, and press the Start key to select it.
2) Change the setting using the +/- key.
3) Press the AE key to store the setting.
4) To clear the item, press the Clear/Stop key.

Item No.	Function	Settings	Description
50	Changing the upper limit for copies	0~99	Setting it to '0' sets the upper limit to 100. default: 0
51	Selecting density adjustment mode	0~99	Use it to decide on whether the density adjustment mode at power-on should be AE or manual. 0: AE mode other than 0: manual mode default: 0

Table 3-904

F. Counter Mode

Use this mode to check the total copy counter. (If the machine is equipped with the drum unit replacement time automatic display function, indicates the number of copies processed by the existing drum unit.) The indication will be in tens/ones and thousands/hundreds, and ten thousands;
for examnple, if 13,500 copies,



1) Choose an item using the +/- key, and press the Start key to select it.
2) To clear the item, press the Clear/Stop key.

Item No.	Function	Description
60	Total counter 0	Indicates tens and ones.
61	Total counter 1	Indicates thousands and hundreds.
62	Total counter 2	Indicates ten thousands.

Table 3-905

COPYRIGHT © 1995 CANON INC.

G. Reproduction Ratio Fine Adjustment

Use this mode after replacing the following:

- DC controller PCB

Operation

1) Select '36' in service mode; and using the +/- key, enter the setting under 'LENS_ADJ' on the service label, and press the AE key.

H. Pre-Exposure Lamp Output Adjustment

Use this mode after replacing the following:

- DC controller PCB
- Pre-exposure lamp

Operation

- After Replacing the DC Controller PCB

1) Select '37' in service mode; and using the +/- key, enter the setting under 'PREX_LP' recorded on the service label, and press the AE key.

- After Replacing the Pre-Exposure Lamp

1) Select '37' in service mode; using the +/- key, enter the setting recorded on the label on the pre-exposure lamp you have replaced, and press the AE key.

2) Record the setting you have entered under 'PREX_LP' on the service label.

COPYRIGHT © 1995 CANON INC.
CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

X. SELF DIAGNOSIS

The copier's DC controller PCB is equipped with a microprocessor that checks the state of the machine (sensors in particular); when it identifies an error, it indicates it in the copy counter on the control panel.

In the case of 'E001', 'E0' and '01' are flashed alternately.

Code	Cause	Description
C	Indicated when the fixing film is being corrected for displacement.	• After E007 The temperature detected by the thermistor (TH1) is 100°C or less at power-on.
CC	Indicated when the drum unit has reached its life (replacement).	• The cummulative number of copies made by the drum unit has reached 30,000.
H	Fixing heater (overheating)	• The thermistor (TH2) temperature exceeds 225°C during copying operation.
E000	• Thermistor (TH1, TH2; faulty) • Fixing heater (H1; faulty) • Thermal fuse (FU1; melted) • Triac (faulty) • DC controller PCB (faulty)	• The thermistor (TH1) temperature fails to reach 65°C 1.5 sec after a press on the Copy Start key. • The thermistor (TH1) temperature fails to reach 150°C in 4 sec after a press on the Copy Start key. • The thermistor (TH2) temperature fails to reach 65°C in 4 sec after a press on the Copy Start key. (Note 1)

COPYRIGHT © 1995 CANON INC.

Code	Cause	Description
E001	• Thermistor (TH1, TH2; faulty) • Triac (faulty) • DC controller PCB (faulty)	• The thermistor (TH1) temperature exceeds 245°C during copying operation. • The thermistor (TH1) temperature exceeds the control temperature by 30°C after a press on the Copy Start key. • The thermistor (TH2) temperature exceeds 275°C during copying operation. • The thermistor (TH1) detects a temperature increase of 100°C or more within 1 sec. • The thermistor (TH1) detects a temperature increase of 40°C or more during standby after it has reached 100°C. • The thermistor detects a temperature increase of 40°C after it has reached 130°C. (Note 1)
E002	• Thermistor (TH1; faulty) • Fixing heater (H1; faulty) • Thermal fuse (FU1; melting) • Triac (faulty) • DC controller PCB (faulty)	• The temperature detected by the thermistor (TH1) has exceeded 150°C during copying operation and maximum power is applied for 10 to 14 sec thereafter. (Note 1)
E003	• Thermistor (TH1; faulty) • Fixing heater (H1; faulty) • Thermal fuse (FU1; melting) • Triac (faulty) • DC controller PCB (faulty)	• The thermistor (TH1) temperature exceeds 190°C during copying and then drops 170°C or less for 0.1 sec or more. (Note 1)
E007	• Fixing heater film (displaced, torn)	• The output of the fixing film displacement sensor (PS5; '1') continues 100 ms or more while the main motor (M1) is operating. • The fixing film cannot be corrected for displacement when fixing film displacement correction mode is executed at power-on.
E010	• Main motor (M1; faulty) • DC controller PCB (faulty)	• The revolution of the main motor deviates from the specification for 1 sec or more while the main motor drive signal (MMD=1) is being generated, i.e., remains MLOCK=0.
E030	• Counter (open circuit) • DC controller PCB (faulty)	• The counter drive signal is not '1' when the counter operater. • The counter drive signal is not '0' when the counter is at rest.

 COPYRIGHT © 1995 CANON INC. CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

Code	Cause	Description
E064	• Composite power supply PCB • DC controller PCB (faulty)	• The scanner does not leave the home position within 10 sec after it has started to move or the home position cannot be detected.
E210	• Lens home position sensor (faulty) • Scanner motor (faulty) • Lens cable • Scanner/lens drive switching mechanism (faulty) • DC controller PCB (faulty)	• The lens home position cannot be detected after the lens has traveled over its maximum distance. • The lens does not leave the lens home position. • A discrepancy is identified between the selected reproduction ratio and the lens position during copying operation.
E220	• Scanning lamp • Intensity sensor PCB (faulty) • DC controller PCB (faulty) • Composite power supply PCB (faulty)	• Intensity adjustment fails to end within 50 sec after the scanning lamp has turned on. • The scanning lamp remains on for 5 sec during standby. • The scanning lamp remains off for 5 sec during copying.
E240	• DC controller PCB (faulty) • Composite power supply (faulty)	• An error is detected in the communication between the DC controller PCB and the composite power supply PCB.
E261	• Power supply frequency (faulty) • Composite power supply PCB (faulty)	• The intervals in the zero-cross signals is greater than allowed.
E400	• Data communication with copier (faulty)	• The communication with the copier is interrupted for 5 sec or more; the communication is monitored at all times.
E803	• DC controller PCB (faulty) • Composite power supply PCB (faulty) • Scanning lamp (faulty)	• The +24V power supply deviates from the control value by ±20% during copying.
keys on control board locked	• Scanner home position sensor (PS1; faulty) • Scanner motor (M2; faulty) • DC controller PCB (faulty)	• The lens home position cannot be detected after the lens has traveled over its maximum distance. • The lens does not leave the lens home position.

Note:
If the self diagnosis mechanism has turned on, you can reset the machine by turning it off once. This, however, does not apply in the case of E000, E001, E002, or E003; to reset, perform the following:

COPYRIGHT © 1995 CANON INC.

1. Starting Service Mode

1) Open the copier's top unit, and remove the two screws ①; then, remove the upper front cover ②.

Caution:
A flexible cable for the control panel is connected to the front upper cover; take care not to damage the cable.

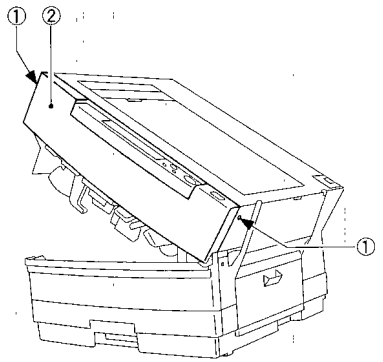


Figure 3-1001

2) Turn on the copier, and short the jumper wires JP3 and JP4 on the DC controller PCB with a screwdriver.
   - The count/ratio indicator on the control panel turns on 'F'.

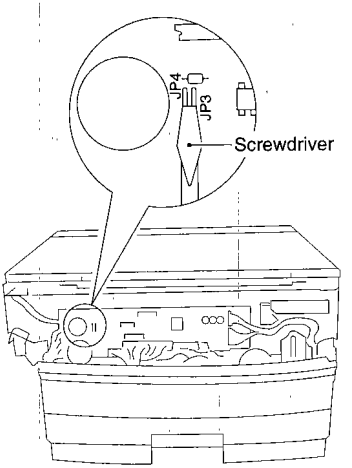


Figure 3-1002

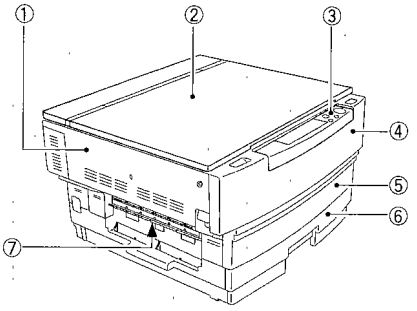
3) When 'F' has turned on, stop shorting the jumper wires JP3 and JP4.
4) Turn off and then on the copier.

 COPYRIGHT © 1995 CANON INC. CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

I. EXTERNALS

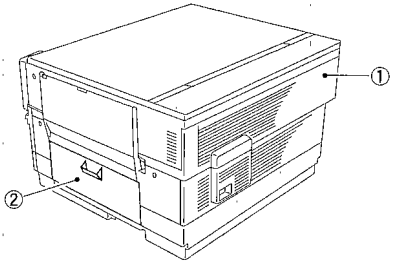
A. External Covers

For instructions on removing the ADF, see IX. "ADF."



① Top cover
② Copyboard cover
③ Control panel
④ Upper front cover
⑤ Lower front cover
⑥ Cassette
⑦ Left cover

Figure 4-101



① Rear cover
② Multifeeder unit

Figure 4-102

Caution:

Remove the covers as necessary to clean, check, or repair the inside of the machine.
Covers that may be detached by mere removal of the mounting screws are omitted from the discussions.

1. Removing the Top Cover

1) Remove the copyboard cover.
2) Open the copier's top unit.
3) Remove the two screws ①, and remove the front upper cover ②.

Caution:

The flexible cable for the control panel is connected to the front upper cover; disconnect the flexible cable from the DC controller.

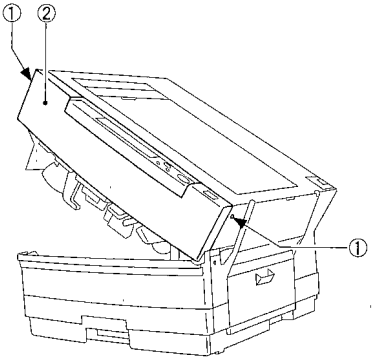


Figure 4-103

COPYRIGHT © 1995 CANON INC.

4) Disengage the two claws ③, and slide the left cover ④ down to remove.

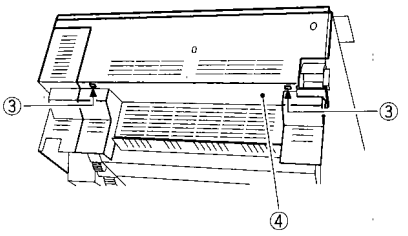


Figure 4-104

5) Remove the screw ⑤, and free the four claws ⑥; then, remove the rear cover ⑦.

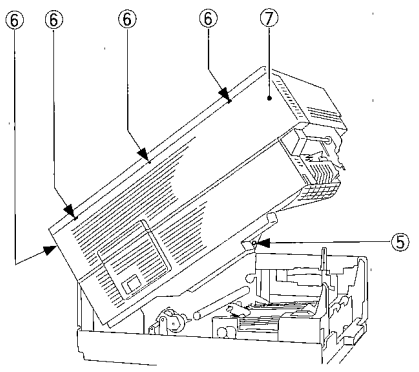


Figure 4-105

6) Remove the screw ⑧, and remove the copyboard cover support retainer ⑨.

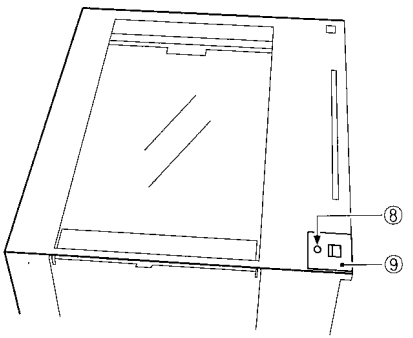


Figure 4-106

7) Lift the top cover ⑩ to remove.

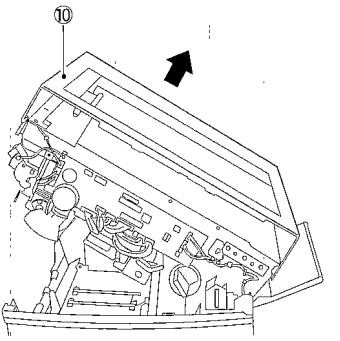


Figure 4-107

2. Removing the Front Lower Cover

1) Remove the top cover. (See "Removing the Top Cover")
2) Open the right cover ①, and remove the two screws ②; then, remove the multi-feeder feeder unit ③.

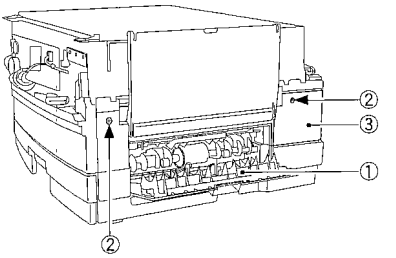


Figure 4-108

3) Remove the cassette.

COPYRIGHT © 1995 CANON INC.

4) While disengaging the three claws ④, remove the lower front cover ⑤.

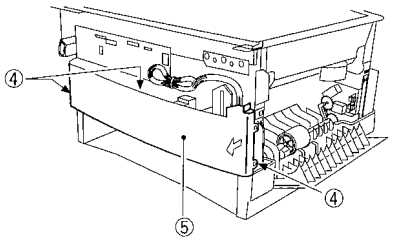


Figure 4-109

Caution:

When installing the multifeeder, go through the following steps:

1) Turn on the power switch, and select multifeeder mode; then, press the Copy Start key.
2) When the pick-up gear unit has risen to its topmost position, turn off the power switch.

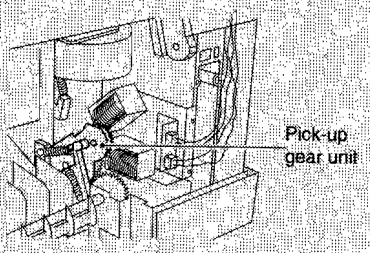


Figure 4-110

3) After installing the multifeeder unit, select multifeeder mode and make one copy.

B. Control Panel

For instructions on removing the ADF, see IX. "ADF."

1. Removing the Control Panel

1) Open the copier's top unit. (See "Removing the Top Cover")
2) Remove the two screws ①, and remove the front upper cover ②.

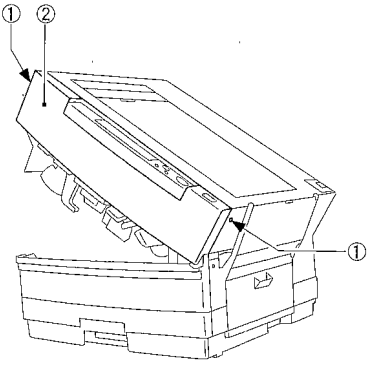


Figure 4-111

3) Disengage the claw ③, and remove the power switch PCB ④.

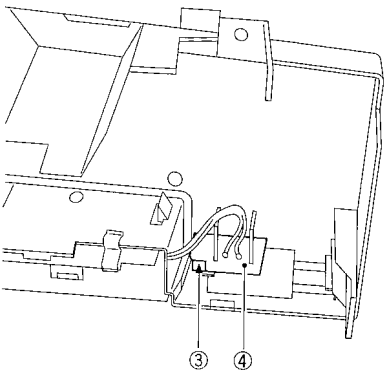


Figure 4-112

COPYRIGHT © 1995 CANON INC.

4) Move the density adjusting lever ⑤ to the right; then, disengage the three claws ⑥, and remove the control panel ⑦.

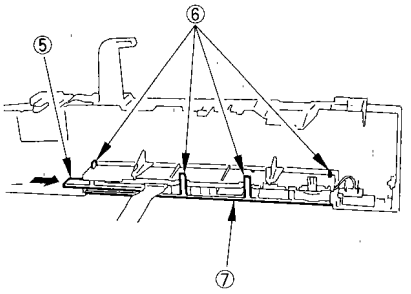


Figure 4-113

COPYRIGHT © 1995 CANON INC.
CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

II. DRIVE SYSTEM

A. Scanner Drive Assembly

For instructions on removing the ADF, see IX. "ADF."

1. Removing the Scanner Drive Motor

1) Remove the top cover. (See "Removing the Top Cover")
2) Loosen the two or three screws ①, and remove the copyboard glass ②.

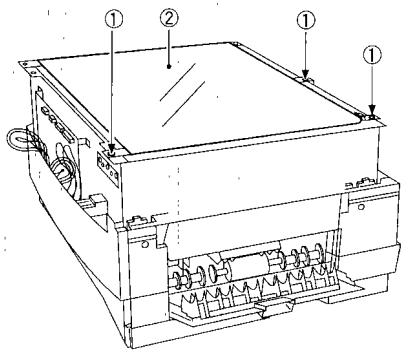


Figure 4-201

3) Remove the four screws ③, and remove the lens cover ④.

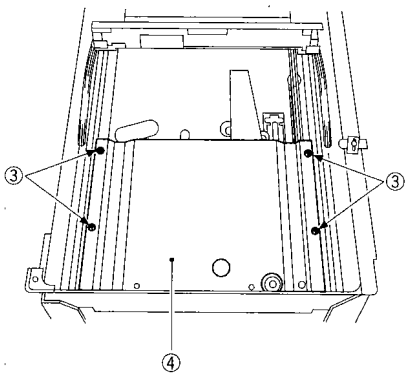


Figure 4-202

4) Remove the Front Lower Cover. (See "Removing the Front Lower Cover.")
5) If the copier came with an ADF as standard, open the upper frame unit, and remove the two screws ⑥ to remove the sub hinge mount ⑤.

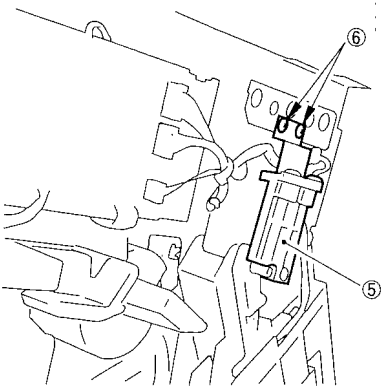


Figure 4-203

6) If the copier came with an ADF as standard, remove the spring ⑦.

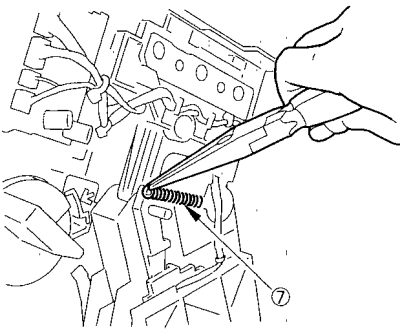


Figure 4-204

COPYRIGHT © 1995 CANON INC.

7) Remove the Developing Assembly. (See "Removing the Developing Assembly.")
8) Open the copier's top unit further, and fix it in position using the grip of a screwdriver or the like (30 mm dia.).

Caution:
The top unit will jumpopen; keep a hand on the top while opening it.

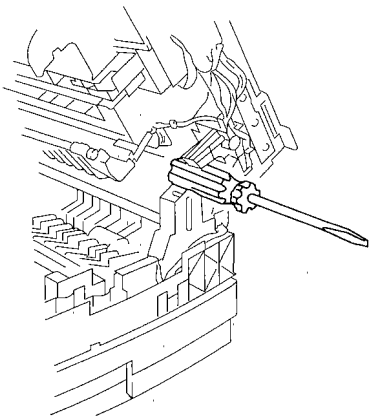


Figure 4-205

9) Remove the two fixing screws ⑧ for the scanner drive motor.

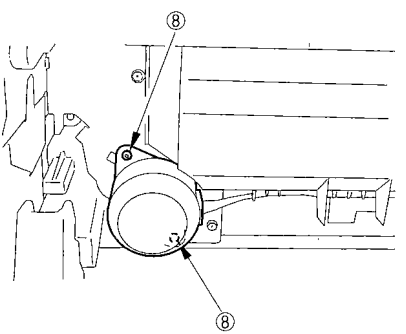


Figure 4-206

10) Free the copier's top unit by removing the screwdriver, and install the spring and the sub hinge mount, and close the upper frame unit.
11) Remove the E-ring ⑨, and lift the cable drive pulley ⑩ slightly to remove the scanner drive motor ⑪.

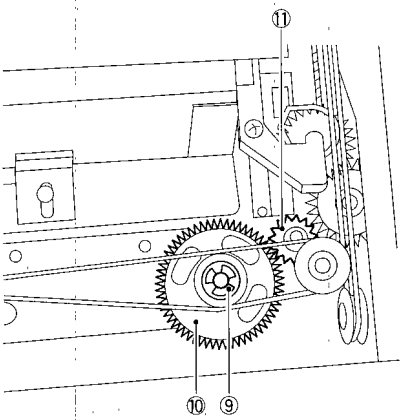


Figure 4-207

COPYRIGHT © 1995 CANON INC.

2. Routing the Scanner Drive Cable

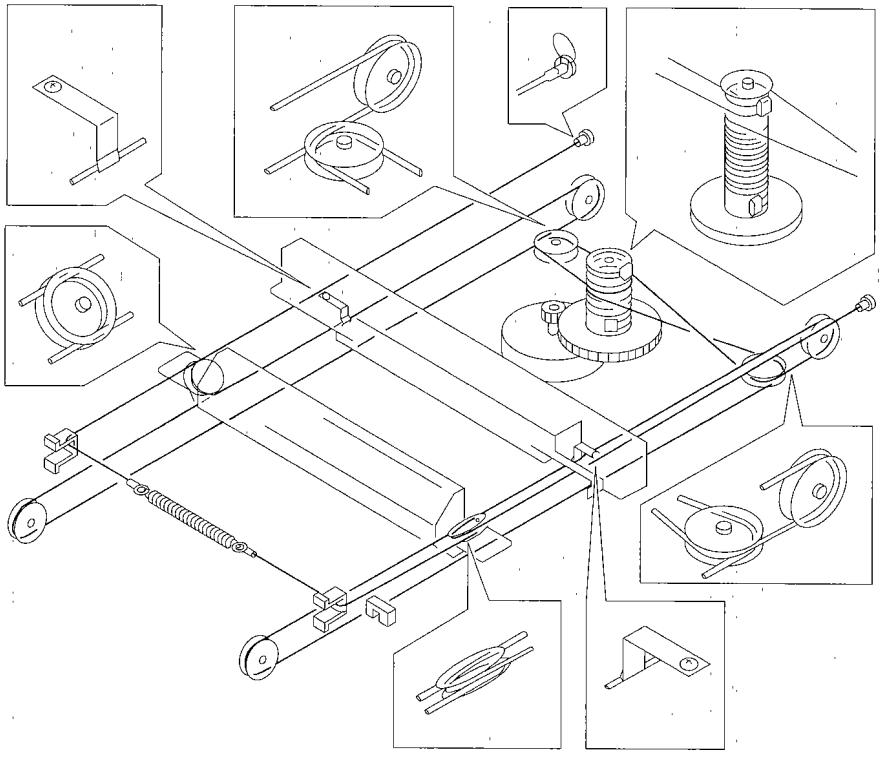


Figure 4-208

COPYRIGHT © 1995 CANON INC.

3. Scanner drive wire attachment procedure

[1] Preparation
Prepare the following tools beforehand.
- Mirror positioning tool (FY9-3009)
- Wire clip (FY9-3017)
- Adhesive tape

1) Set the mirror positioning tool.

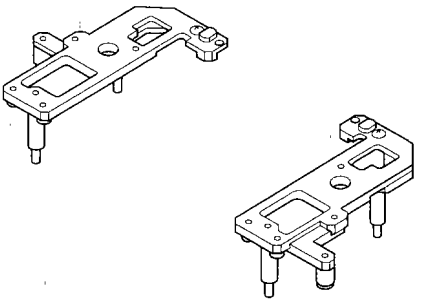


Figure 4-209

2) Prepare about five sheets of adhesive tape which are cut in approximately 20mm x 50mm size.
3) Remove the copyboard cover.
4) Remove the upper cover.
5) Remove the copyboard glass.
6) Remove the sensor cable ① and three screws ② and remove the cross member ③.

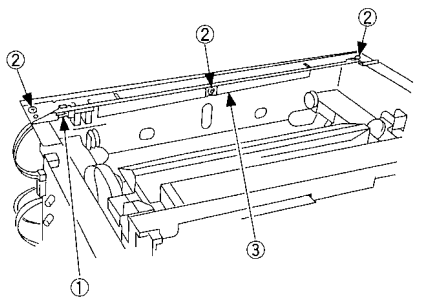


Figure 4-210

7) Remove the four screws ④ and the lens cover ⑤.

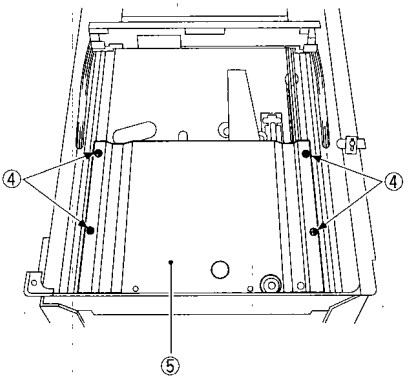


Figure 4-211

 COPYRIGHT © 1995 CANON INC. CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

[2] Attach the backing wire.

1) Wind the backing wire (silver) ② on the wire drive pulley ① 7.5 times so that the longer side comes to the top and secure it using wire the clip ③.

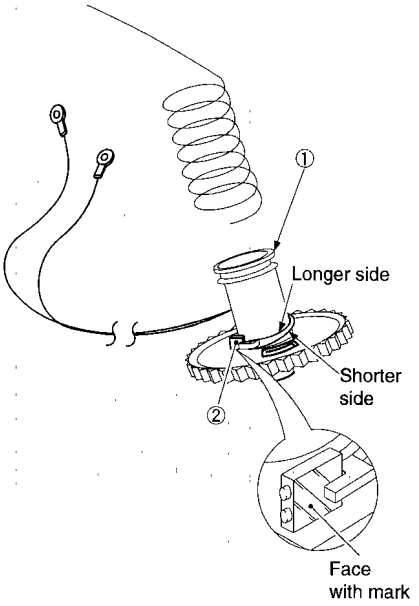


Figure 4-212

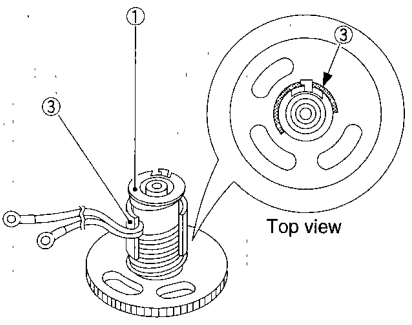


Figure 4-213

2) Place the wire drive pulley ① on the shaft ④ and secure it using an E ring ⑤. When placing the wire drive pulley on the shaft, orient the hook section to the front side.

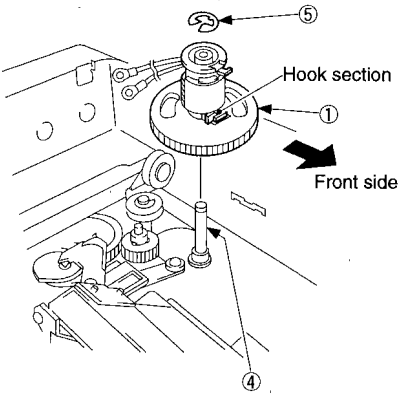


Figure 4-214

3) Hook the shorter side of the wire ⑥ on the pulley ⑦ on the right rear side.

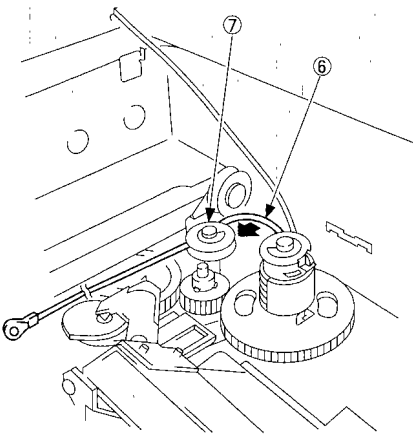


Figure 4-215

COPYRIGHT © 1995 CANON INC.

4) Put the shorter side of the wire ⑥ through under mirror 1 mount ⑧ and the mirror 2 and 3 mount ⑨, then hook it on the pulley ⑩ at the left rear side and pulley ⑪ of the mirror 2 and 3 mount.

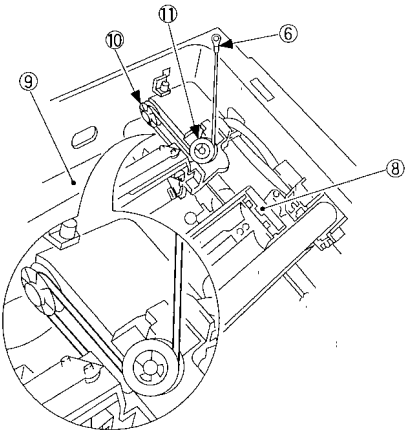


Figure 4-216

5) After hooking the shorter side of the wire ⑥ on the wire hook ⑫, use adhesive tape ⑬ to secure the rear end of the wire on the left side face. Arrange the securing position of the wire so that, as shown in the Figure below, the rear end of the wire comes to the position against the hole on the left side face.

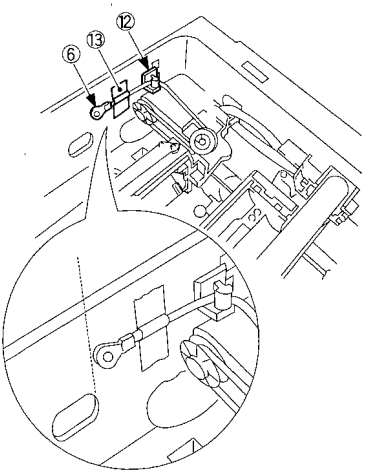


Figure 4-217

6) Hook the longer side of the wire ⑭ on the pulley ⑮ at the right hand front side as shown in the Figure below by routing it along the wire drive pulley ①.

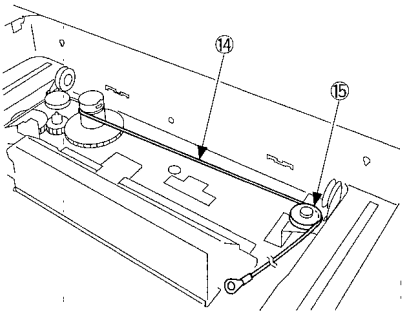


Figure 4-218

7) Put the longer side of the wire ⑭ throught under mirror 1 mount ⑧ and mirror 2 and 3 mount ⑨, then hook it on the pulley ⑯ at the left hand front side and pulley ⑰ of mirror 2 and 3 mount.

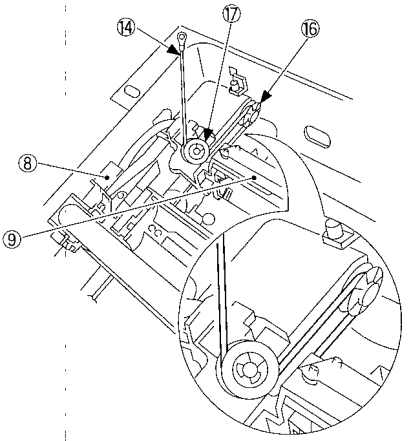


Figure 4-219

COPYRIGHT © 1995 CANON INC.

8) After hooking the longer side of the wire ⑭ on the wire hook ⑱, use adhesive tape ⑲ to secure the rear end of the wire on the left side face. Arrange the securing position of the wire so that the rear end of the wire comes to the position as shown in the Figure below against the hole on the left side face.

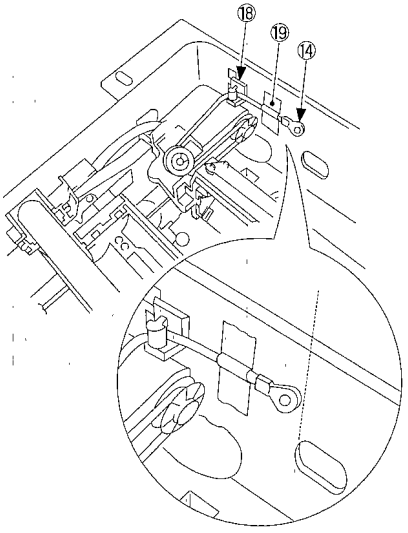


Figure 4-220

[3] Attaching forward wire

1) Wind the forward wire (black) ② on the upper side hook ① wire drive pulley 1.5 times so that the longer side comes to the top, then, secure the shorter side of the wire ③ as shown in the figure below using adhesive tape ④.

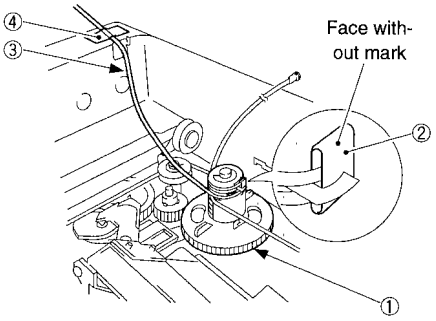


Figure 4-221

2) Route the longer side of wire ⑤ along the wire drive pulley and hook it on the pulley ⑥ at the right hand front side as shown in the figure below.

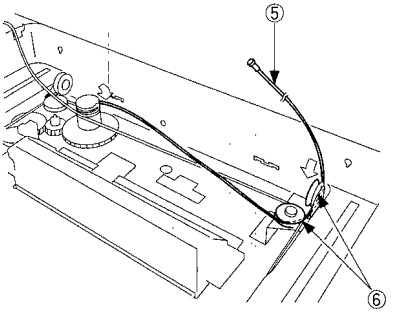


Figure 4-222

COPYRIGHT © 1995 CANON INC.

3) Furthermore, put the longer side of wire ⑤ through under mirror 1 mount ⑦ and hook it on the pulley ⑧ of mirror 2 and 3 mount as shown in the figure below.

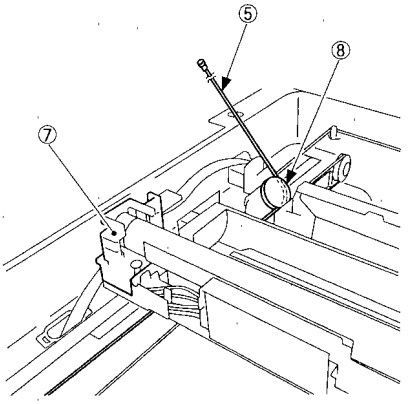


Figure 4-223

4) After hooking the longer side of wire ⑤ on the pulley ⑧ of mirror 2 and 3 mount, route it through between mirror 1 mount ⑦ and scanning lamp ⑨.

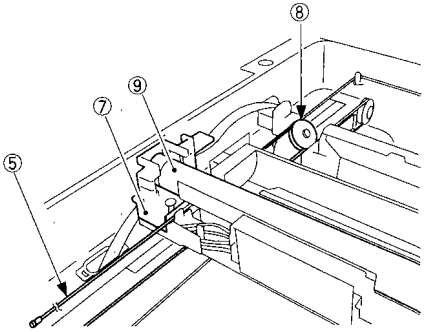


Figure 4-224

5) Fish the rear end of the longer side of wire ⑤ through the hole ⑪ at the right side face.

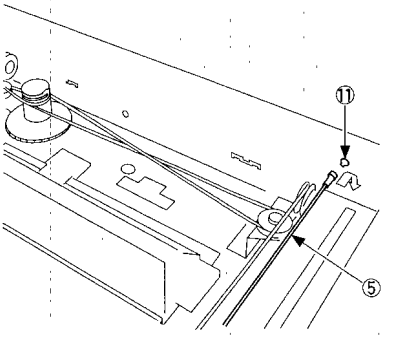


Figure 4-225

6) Remove the fixing for the shorter side of the wire ③ and hook the wire on the pulley ⑫ at the right rear side as shown in the figure below.

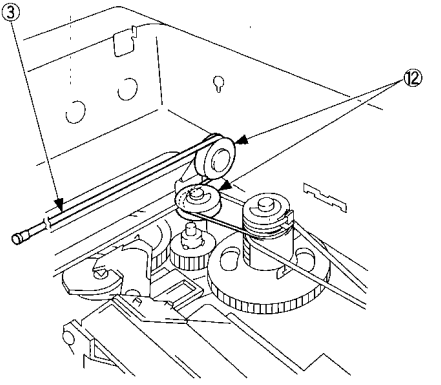


Figure 4-226

COPYRIGHT © 1995 CANON INC.

7) Put the shorter side of the wire ③ under mirror 1 mount ⑥, then hook it on the pulley ⑫ of mirror 2 and 3 mount as shown in the figure below.

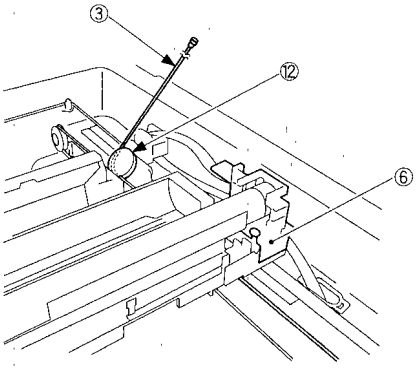


Figure 4-227

8) After hooking the shorter side of the wire ③ on the pulley ⑫ of mirror 2 and 3 mount, fish it between mirror 1 mount ⑦ and the scanning lamp ⑨.

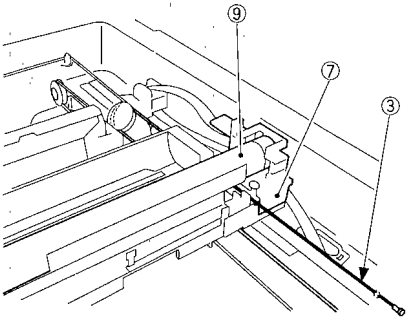


Figure 4-228

9) Fish the rear end of the shorter side of the wire ③ through the hole ⑬ at the right side face.

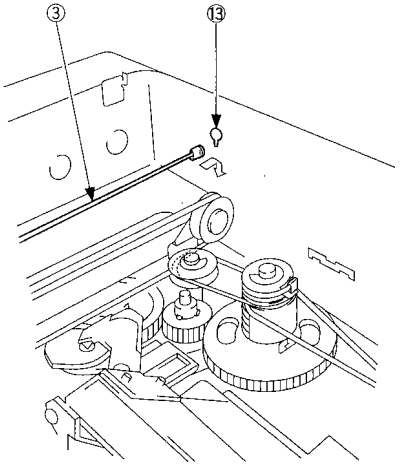


Figure 4-229

10) Remove the fixing for the shorter side ③ and longer side ⑤ of the backing wire and connect both using the spring ⑭.

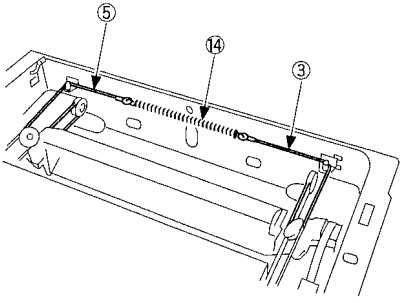


Figure 4-230

COPYRIGHT © 1995 CANON INC.

11) Remove the pulley clip ⑮ attached to the wire driver pulley ①.

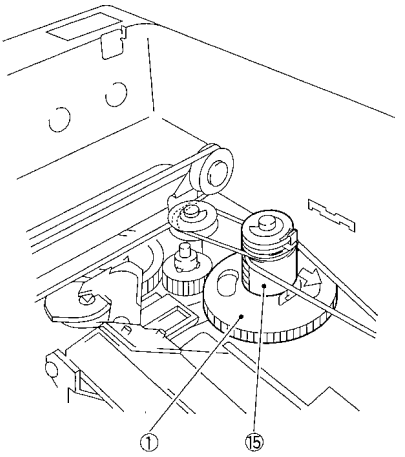


Figure 4-231

[4] Positioning of mirror 1 mount

1) Temporary secure the rear side and front side of mirror 1 mount ① on the fitting ② of the backing wire.

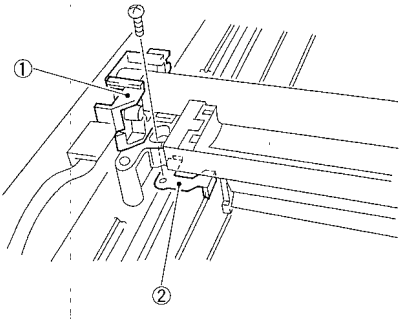


Figure 4-232 (Rear side)

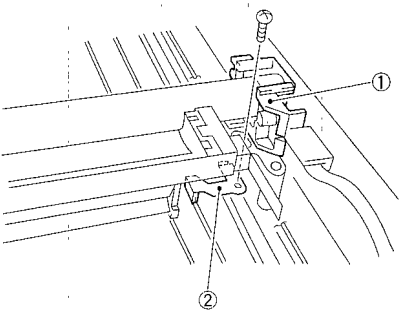


Figure 4-233 (Front side)

COPYRIGHT © 1995 CANON INC.
CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

2) Rotate the wire drive pulley ④ so that the three pins ③ of the mirror positioning tool for the rear and front side become accommodated in the position shown in the figure below.

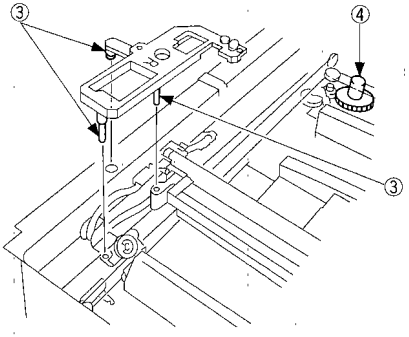


Figure 4-234 (Rear side)

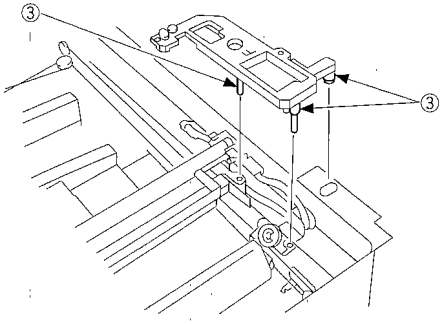


Figure 4-235 (Front side)

3) Tighten the positioning screw at the rear side and front side of mirror 1 mount ①.

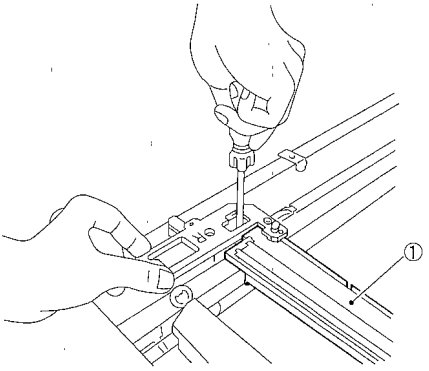


Figure 4-236 (Rear side)

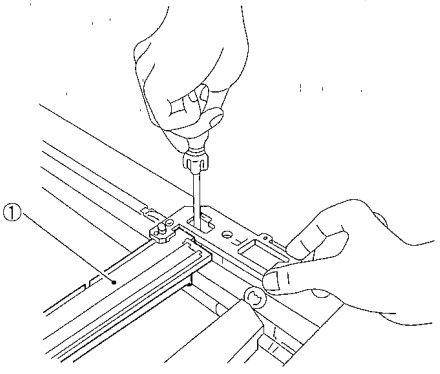


Figure 4-237 (Front side)

COPYRIGHT © 1995 CANON INC.

B. Lens Drive Assembly

For instructions on removing the ADF, see IX. "ADF."

1. Removing the Lens Cable

1) Select DIRECT mode, and disconnect the power plug.
2) Remove the copyboard cover.
3) Remove the top cover. (See "Removing the Top Cover")
4) Remove the main drive assembly. (See "2. Removing the Main Drive Assembly.")
5) Remove the four screws ①, and remove the lens cover ②.

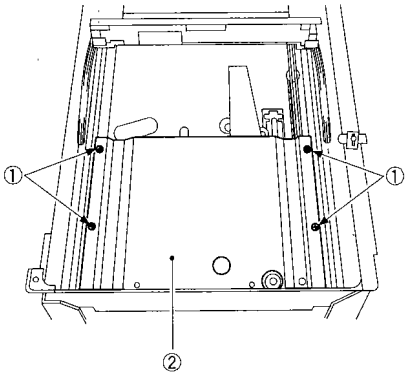


Figure 4-238

6) Put a marking ⑤ on the lens cable fixing plate ③ and the lens mount ④.

Caution:
During assembly, make sure that the lens cable fixing plate and the lens mount are positioned with reference to the markings.

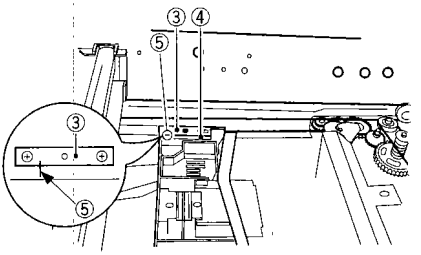


Figure 4-239

7) Disengage the No. 4/5 mirror mount ⑥ and the cam ⑦.

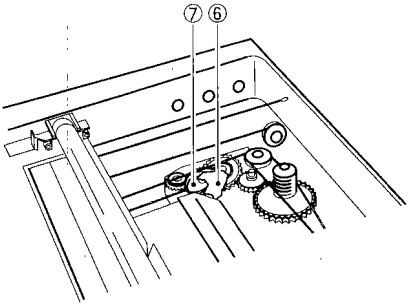


Figure 4-240

COPYRIGHT © 1995 CANON INC.
CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

8) Remove the screw ⑧, and remove the cam gear ⑨.

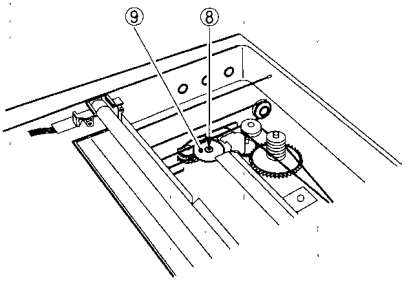


Figure 4-241

9) Remove the spring ⑪ from the tensioner ⑩.

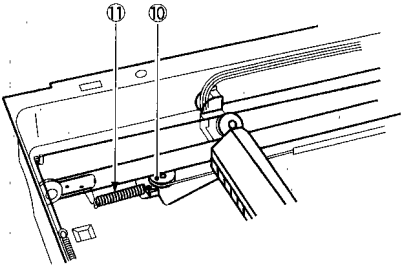


Figure 4-242

10) Remove the screw ⑫, and remove the lens cable fixing plate ③.

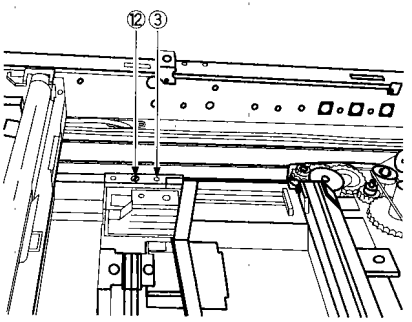


Figure 4-243

11) Remove the lens cable from the lens cable ⑬ fixing plate ③; then, pull out the lens cable.

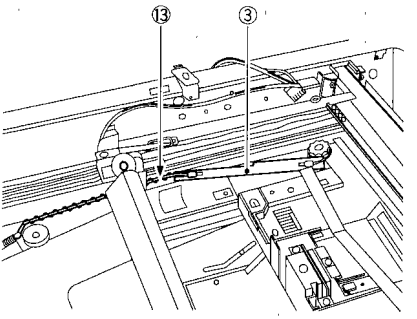


Figure 4-244

COPYRIGHT © 1995 CANON INC.

2. Installing the Lens Cable

1) After installing the lens cable, keep the detecting lever ① of the No. 4/5 mirror mount off the cam gear ② so that the cam gear will not come into contact with the detecting lever when it rotates.

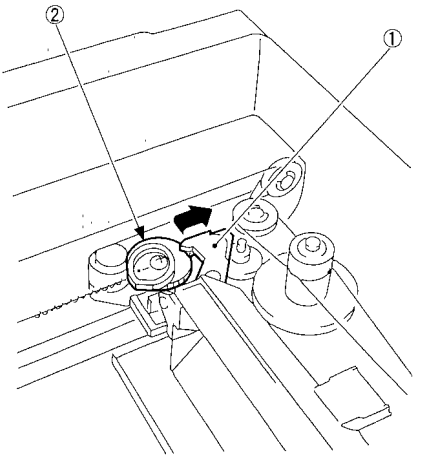


Figure 4-245

2) While keeping the condition created in step 1), turn on the power; then, turn off the power when the No. 1 mirror mount and the lens have stopped to operate.
   - The No. 1 mirror mount moves to the home position and the lens will shift to the DIRECT position.

3) Engage the detecting lever of the No. 4/5 mirror mount with the cam gear, and make sure that the tip ③ of the detecting lever and the marking line ④ on the top face of the cam gear match.

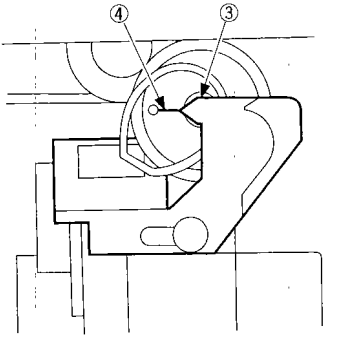


Figure 4-246

4) If the tip of the detecting lever and the marking line on the top face of the gear do not match, remove the fixing screw ⑤ of the cam gear, and change the tooth engagement of the cam gear ② until the tip and the marking line match.

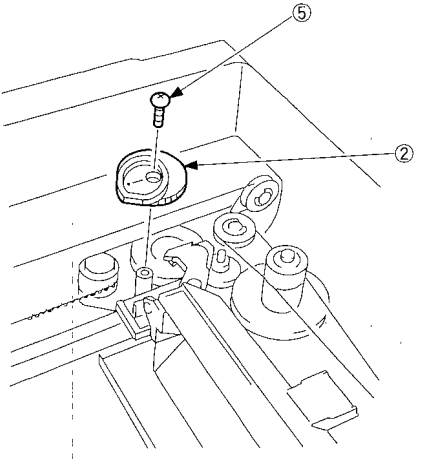


Figure 4-247

5) Engage the detecting lever of the No. 4/5 mirror mount with the cam gear.

COPYRIGHT © 1995 CANON INC.

C. Main Motor/Main Drive Assembly

For instructions on removing the ADF, see IX. "ADF."

1. Removing the Main Motor Unit

1) Remove the drum unit.
2) Remove the top cover. (See "Removing the Top Cover")
3) Disconnect the 13 connectors ② from the composite power supply PCB ①.

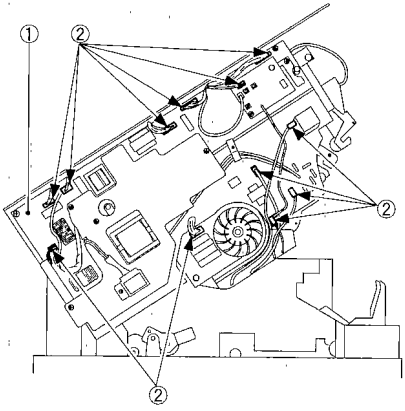


Figure 4-248

4) Remove the screw ③, and remove the top high-voltage terminal unit ④.

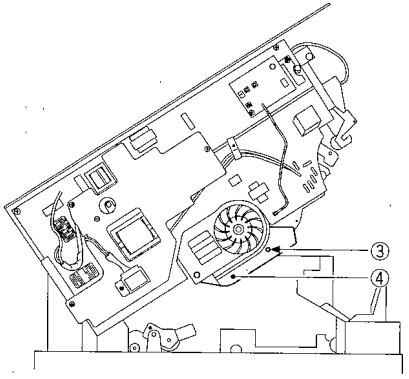


Figure 4-249

5) Remove the seven screws ⑤; then, while disengaging the claw ⑥, remove the composite power supply PCB ①.

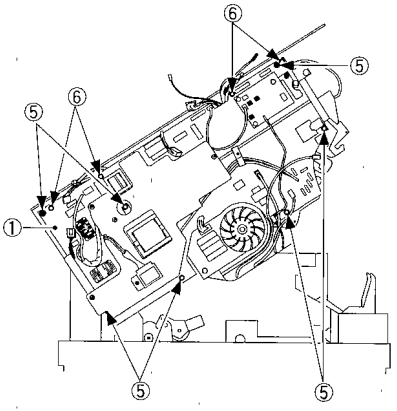


Figure 4-250

6) Remove the insulating sheet ⑦.

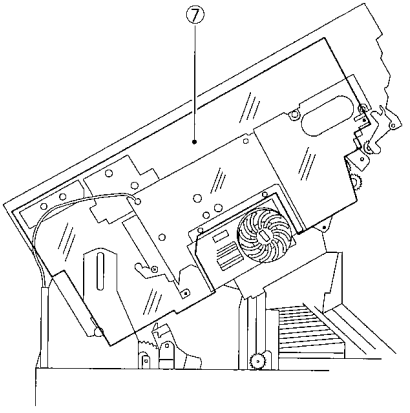


Figure 4-251

COPYRIGHT © 1995 CANON INC.

7) Remove the four screws ⑧, and remove the main motor unit ⑨.

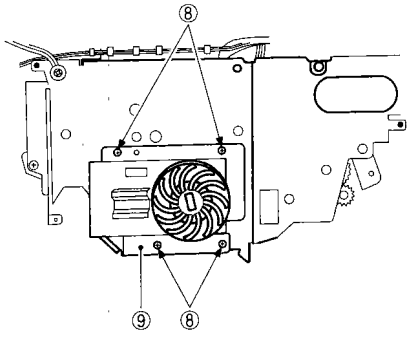


Figure 4-252

Caution:
When installing the main motor unit, be sure to attach the fan belt.
After attaching the fan belt, make sure that the belt is free of twists.

2. Removing the Main Drive Assembly

1) Remove the drum unit.
2) Remove the top cover.
3) Disconnect the 13 connectors ② from the composite power supply PCB ①.

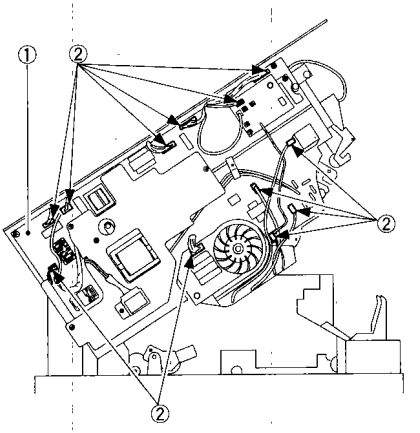


Figure 4-253

4) Remove the screw ③, and remove the high-voltage terminal unit ④.

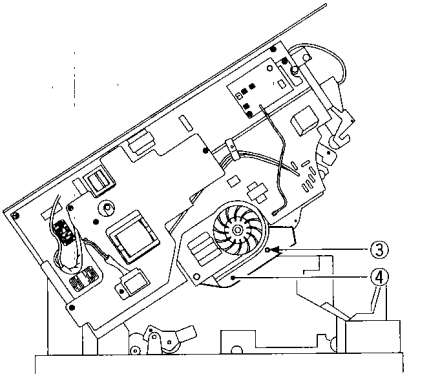


Figure 4-254

COPYRIGHT © 1995 CANON INC.

5) Remove the seven screws ⑤; then, while disengaging the claw ⑥, remove the composite power supply PCB ①.

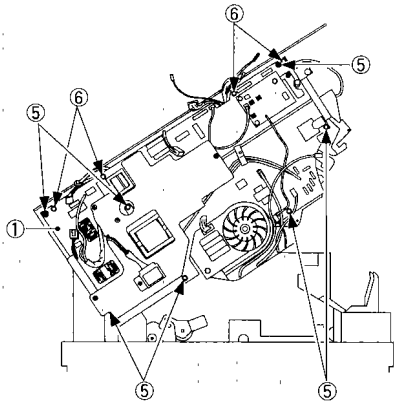


Figure 4-255

6) Remove the insulating sheet ⑦.

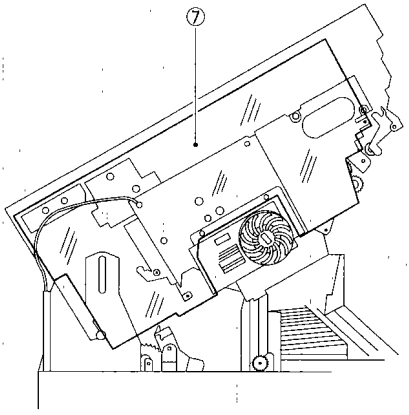


Figure 4-256

7) Remove the screw ⑧, and remove the grounding wire ⑨.

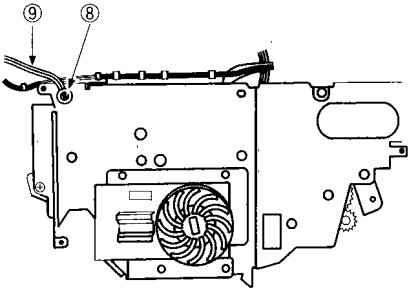


Figure 4-257

8) Remove the three screws ⑩, and remove the main drive assembly ⑪.

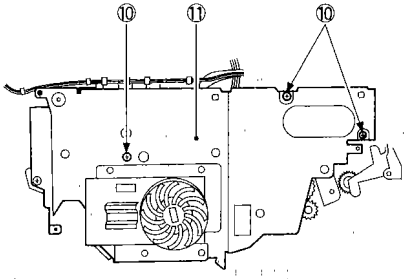


Figure 4-258

COPYRIGHT © 1995 CANON INC.

III. PICK-UP/FEEDING SYSTEM

A. Pick-Up Assembly

1. **Cassette Pick-Up Roller Unit**

1) Remove the cassette.
2) Open the right door, and remove the two screws ①; then, remove the multifeeder unit ②.

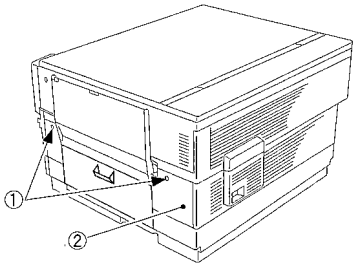


Figure 4-301

3) Remove the spacer ③.

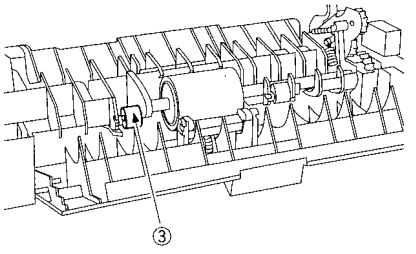


Figure 4-302

4) While pushing down the shaft retainer ④, move the cassette pick-up roller shaft ⑤ toward the front.

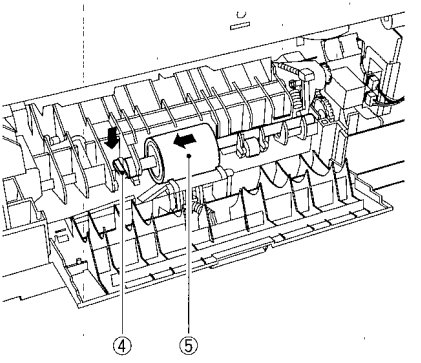


Figure 4-303

5) While removing the bushing ⑥, remove the cassette pick-up roller unit ⑦.

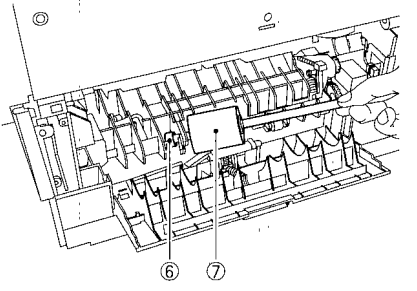


Figure 4-304

 COPYRIGHT © 1995 CANON INC. CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

Caution:

When installing the multifeeder unit, go through the following steps:

1) Turn on the power switch, and select multifeeder mode; then, press the Copy Start key.
2) When the pick-up gear unit has risen to its topmost position, turn off the power switch.

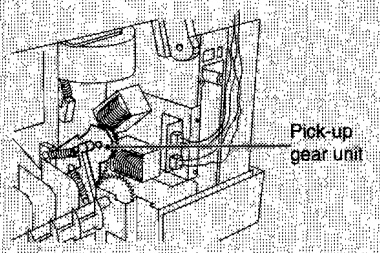


Figure 4-305

3) After installing the multifeeder unit, select multifeeder mode and make one copy.

2. Removing the Pick-Up Roller

1) Remove the pick-up roller unit. (See "1. Cassette Pick-Up Roller Unit.")
2) Remove the stop ring (plastic) ①, and pull out the pick-up roller.

Caution:

Take care not to lose the pin at the rear.

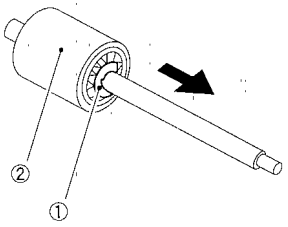


Figure 4-306

3. Removing the Pick-Up Clutch

1) Remove the top cover. (See "Removing the Top Cover.")
2) Remove the front lower cover. (See "Removing the Front Lower Cover.")

Caution:

The top unit will jumpopen; keep a hand on the top while opening it.

3) If the copier came with an ADF as standard, open the upper frame unit, and remove the two screws ② to remove the sub hinge mount ①.

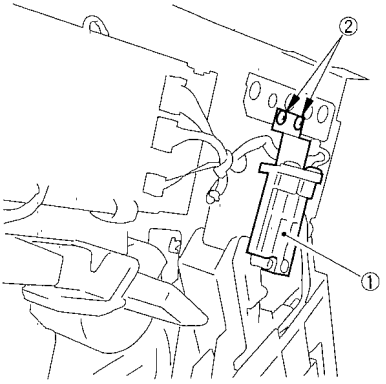


Figure 4-307

4) If the copier came with an ADF as standard, remove the spring ③.

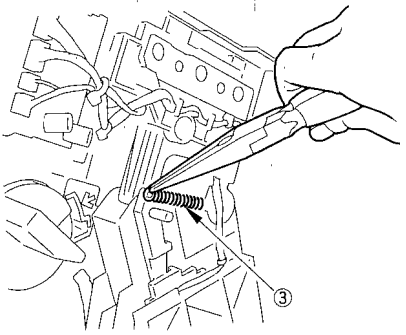


Figure 4-308

COPYRIGHT © 1995 CANON INC.

5) Open the copier's top unit; and fix it in position using the grip of the screwdriver (about 30 mm dia.).

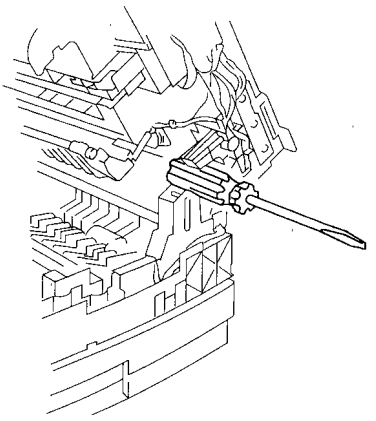


Figure 4-309

6) Remove the feed roller ④ and the spring ⑤; then, remove the transfer mount unit ⑥ and the high-voltage terminal unit ⑦)

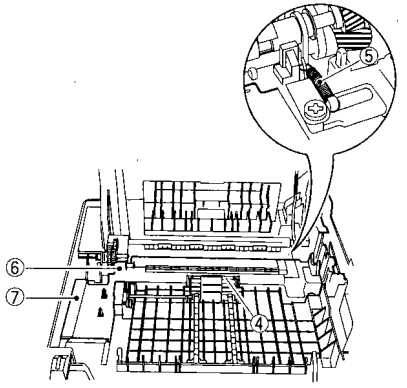


Figure 4-310

7) Remove the springs ⑧ and ⑨.

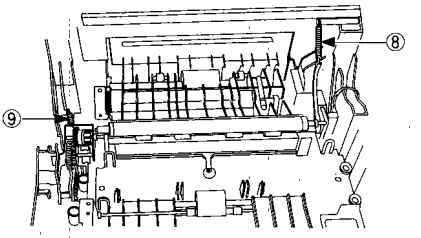


Figure 4-311

8) Remove the springs ⑪ and ⑫; then, while extending the bushing ⑬, remove the registration roller unit ⑩.

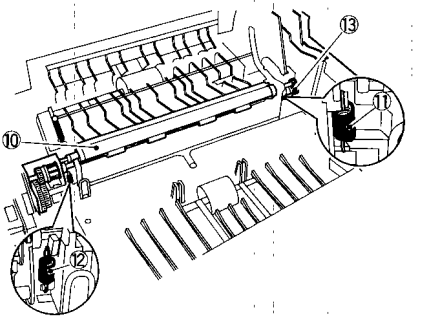


Figure 4-312

9) Disconnect the two connectors ⑭, and remove the screw ⑮; then, remove the solenoid ⑯.

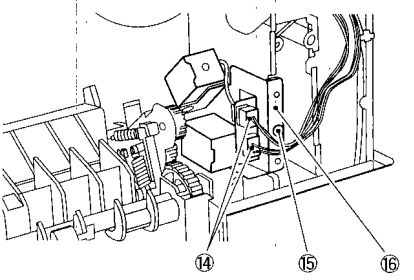


Figure 4-313

COPYRIGHT © 1995 CANON INC.

10) While extending the bushing ⑰, remove the pick-up clutch unit ⑱.

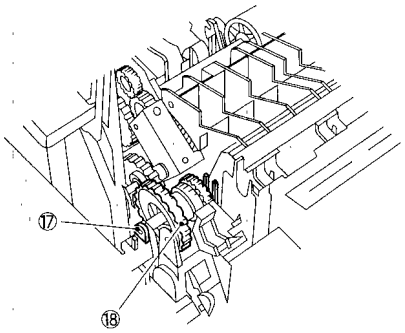


Figure 4-314

11) Remove the E-ring ⑲ and the washer ⑳; then, pull out the pick-up clutch ㉑.

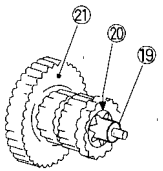


Figure 4-315

B. Multifeeder Assembly

1. Removing the Multifeeder Assembly

1) Open the right door.
2) Remove the two screws ①, and remove the multifeeder assembly ②.

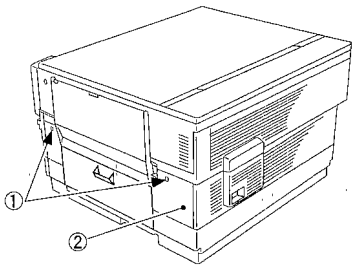


Figure 4-316

2. Removing the Multifeeder Pick-Up Roller

1) Remove the multifeeder assembly. (See "1. Removing the Multifeeder Assembly.")
2) Remove the bushing ① and the gear ② while disengaging the claw ③.

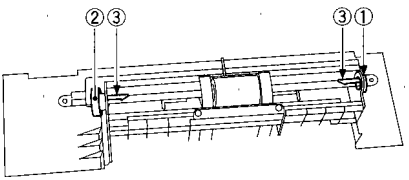


Figure 4-317

COPYRIGHT © 1995 CANON INC.

3) Remove the multifeeder pick-up roller unit ④.

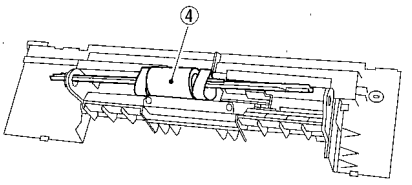


Figure 4-318

4) While disengaging the claw ⑤, pull out the multifeeder pick-up roller.

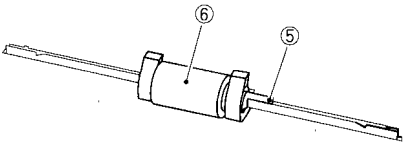


Figure 4-319

3. Removing the Separation Pad

1) Remove the multifeeder pick-up roller shaft. (See "1. Removing the Multifeeder Roller.")
2) Remove the pick-up tray.
3) Remove the stopper ① by disengaging the claw ②.

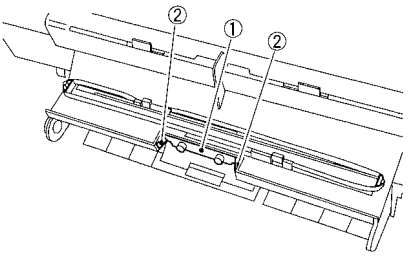


Figure 4-320

4) Push up the holding plate ③; then, move it toward the rear to remove.

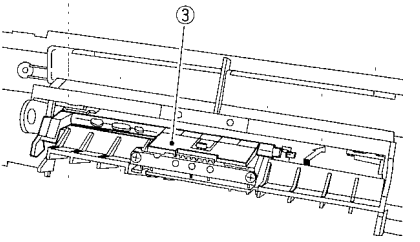


Figure 4-321

5) Push up the separation pad ④; then, pull it out while pushing the shaft ⑤ toward the inside.

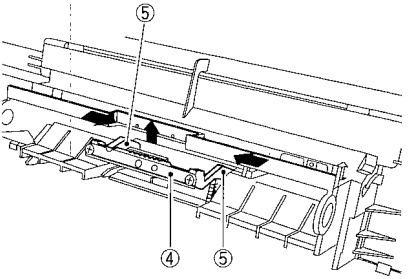


Figure 4-322

COPYRIGHT © 1995 CANON INC.

C. Feeding Assembly

1. Detaching the Feeding Belt

1) Open the copier's top unit.
2) Push down the stopper ①, and remove the gear ②.

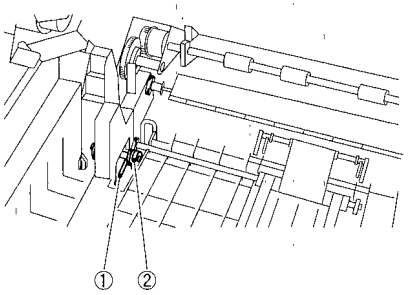


Figure 4-323

3) Remove the bushing ③, and remove each roller ④ and detach the feeding belt ⑤.

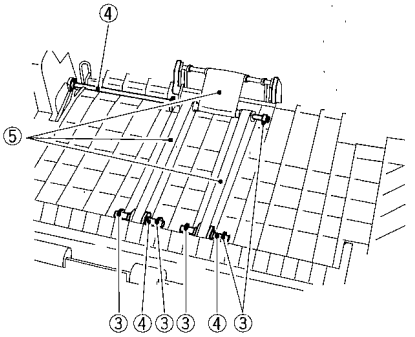


Figure 4-324

D. Registration Roller

1. Removing the Pick-Up Clutch

1) Remove the top cover. (See "Removing the Top Cover.")
2) Remove the front lower cover. (See "Removing the Front Lower Cover.")

Caution:
The top unit will jumpopen; keep a hand on the top while opening it.

3) If the copier came with an ADF as standard, open the upper frame unit, and remove the two screws ② to remove the sub hinge mount ①.

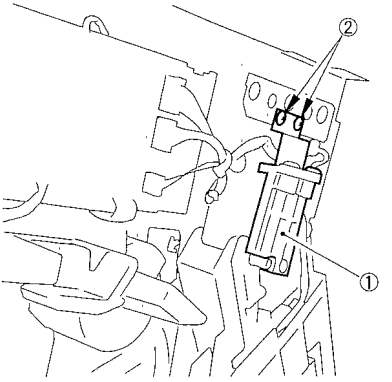


Figure 4-325

4) If the copier came with an ADF as standard, remove the spring ③.

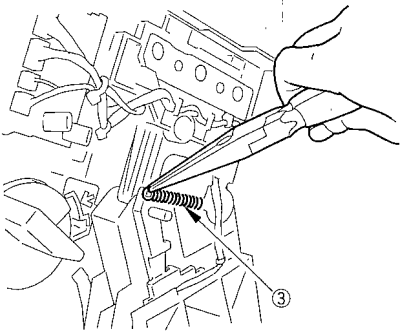


Figure 4-326

COPYRIGHT © 1995 CANON INC.

5) Open the copier's top unit; and fix it in position using the grip of the screwdriver (about 30 mm dia.).

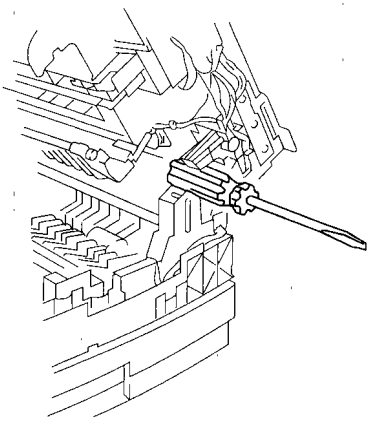


Figure 4-327

6) Remove the feed roller ④ and the spring ⑤; then, remove the transfer mount unit ⑥ and the high-voltage terminal unit ⑦)

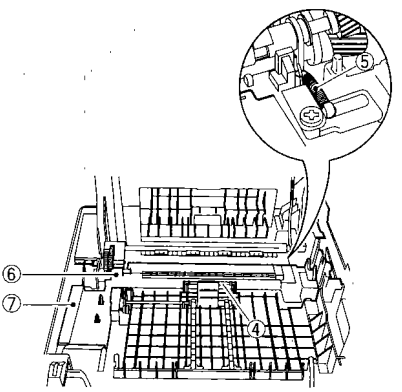


Figure 4-328

7) Remove the springs ⑧ and ⑨.

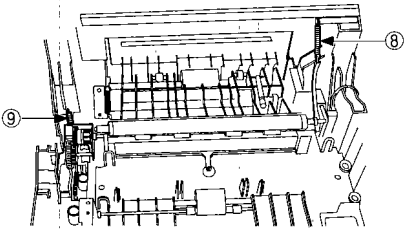


Figure 4-329

8) Remove the springs ⑪ and ⑫; then, while extending the bushing ⑬, remove the registration roller unit ⑩.

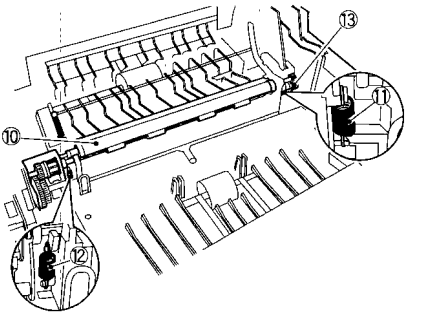


Figure 4-330

COPYRIGHT © 1995 CANON INC.
CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

2. Removing the Registration Roller Clutch

1) Remove the registration roller unit. (See "1. Removing the Pick-Up Clutch.")
2) Remove the E-ring ① ; then, remove the gear ② and the arm ③.

Caution

Take care not to drop the pin from the rear of the gear.

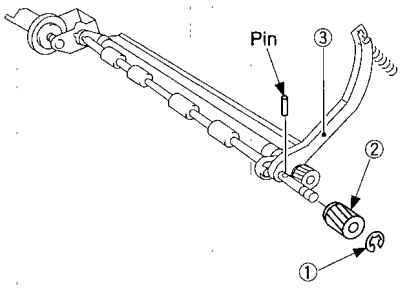


Figure 4-331

3) Remove the E-ring ④.

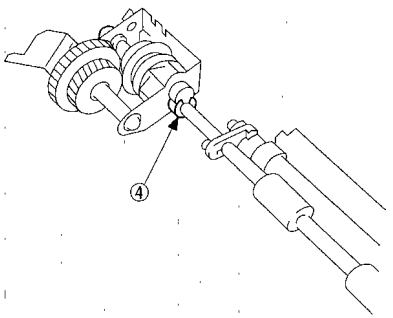


Figure 4-332

4) Remove the two bushes ⑤.

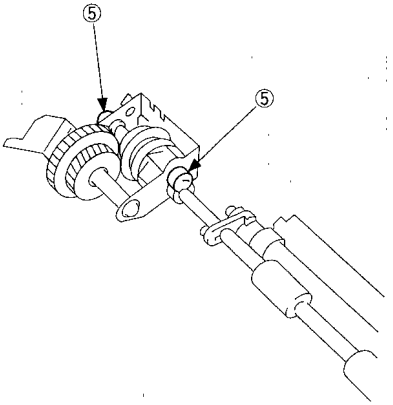


Figure 4-333

5) While moving down the registration roller ⑥, detach it from the gear unit ⑦.

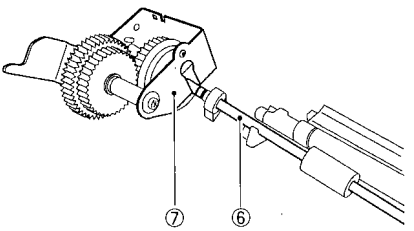


Figure 4-334

COPYRIGHT © 1995 CANON INC.

6) Remove the E-ring ⑧, and pull out the clutch ⑨.

Caution:
Take care not to lose the pin from the rear of the clutch.

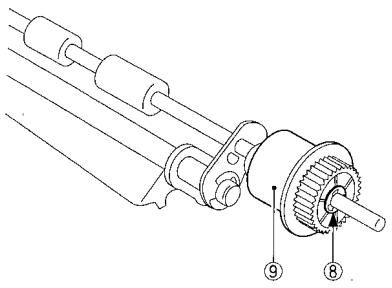


Figure 4-335

E. Delivery Assembly

1. Removing the Delivery Roller

1) Open the copier's top unit.
2) Remove the screw ①, and remove the noise filter PCB cover ②.

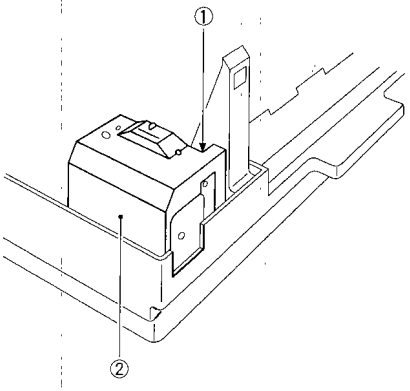


Figure 4-336

3) Push the claws ③, and shift the delivery roller gear unit ④.

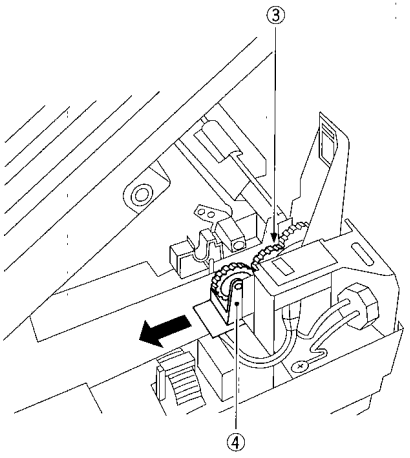


Figure 4-337

COPYRIGHT © 1995 CANON INC.

4) Remove the delivery roller ⑤.

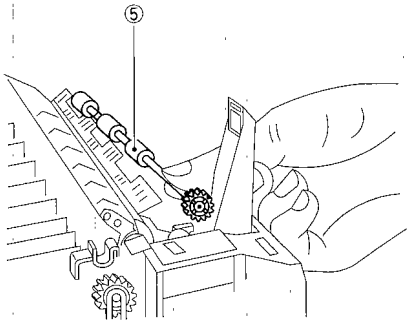


Figure 4-338

COPYRIGHT © 1995 CANON INC.

IV. EXPOSURE SYSTEM

A. Illuminating Assembly

1. Removing the Scanning Lamp

1) Disconnect the power plug.
2) Remove the top cover.
3) Remove the copyboard glass.
4) Hook fingers on both ends of the scanning lamp ①, and remove the lamp while rotating it.

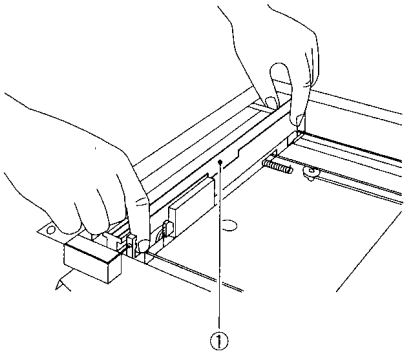


Figure 4-401

2. Installing the Scanning Lamp

Install the scanning lamp so that the light-emitting portion (transparent glass) is on the left when viewed from the front of the copier.

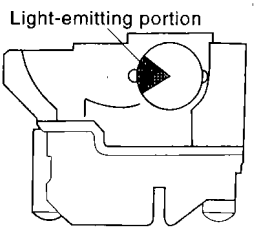


Figure 4-402 (front view)

1) Remove the two screws ①, and remove the multifeeder unit ②.

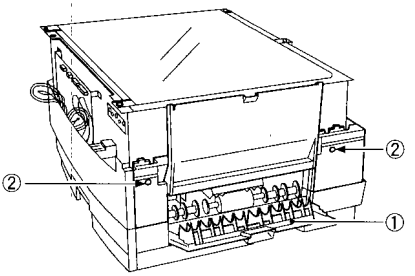


Figure 4-403

2) Turn the flywheel ③ of the scanner motor, and move the No. 1 mirror mount ④ so that it is nearly at the center.

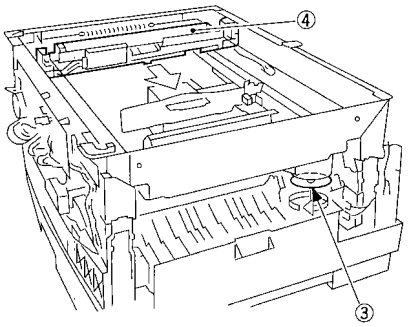


Figure 4-404

COPYRIGHT © 1995 CANON INC.
CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

3) Install the scanning lamp ⑤ with its manufacturer's marking ⑥ toward the front. Then, make sure that the contacts of the lamp are in firm contact with the contacts of the No. 1 mirror mount.

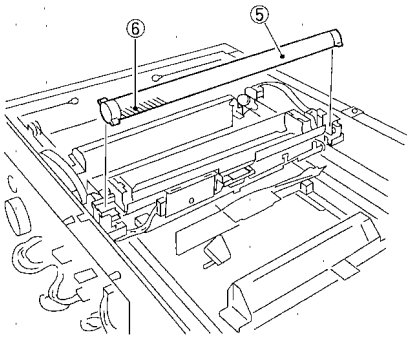


Figure 4-405

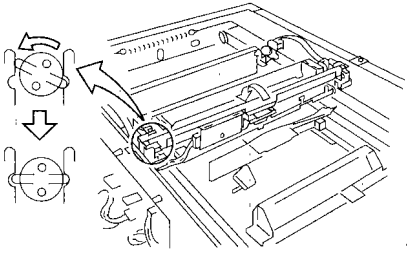


Figure 4-406

4) After installing the scanning lamp, push the four corners of the No. 1 mirror mount ④ lightly to make sure that the slider is in contact.

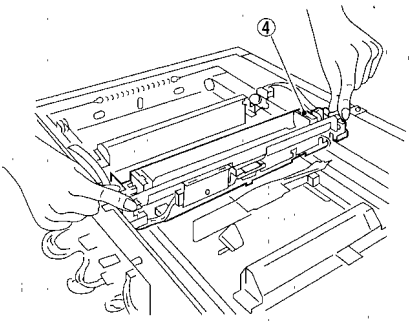


Figure 4-407

5) If the slider is not in firm contact, try the steps to install the scanning lamp once again.

COPYRIGHT © 1995 CANON INC.

3. Removing the Scanning Lamp Heater

Caution:
The scanning lamp heater may be hot. Wait about 5 to 6 min after disconnecting the power plug.

Before Work
- Adhesive Tape

1) Disconnect the power plug.
2) Cut the adhesive tape to about 50 x 50 mm; prepare two strips.
3) Remove the top cover.
4) Remove the copyboard glass.
5) Remove the scanning lamp.
6) Remove the screw ①, and remove the heater plate ②.

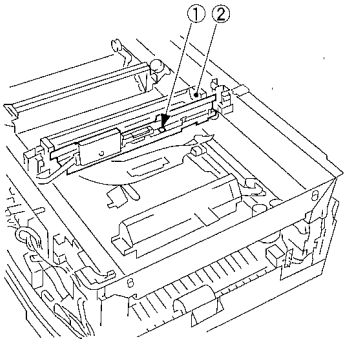


Figure 4-408

7) Disengage the rear ③ and the front ④ of the scanning cable from the hook ⑤; then, fix it in place while keeping the wire tension loose using the strips of adhesive tape ⑥.

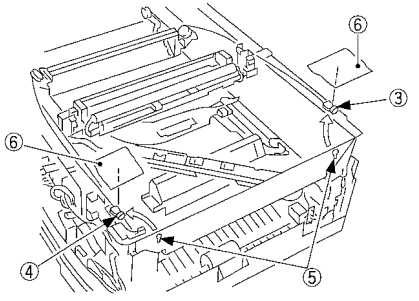


Figure 4-409

8) Disconnect the connector ⑧ from the back of the No. 1 mirror mount ⑦, and remove the scanning lamp ⑨.

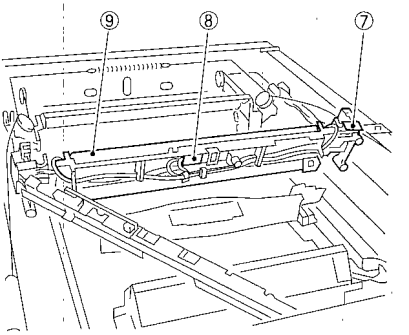


Figure 4-410

Caution:
The scanning lamp heater may be for either 115 V or 220/240 V. Be sure to select the one that suits the copier's voltage rating.
To identify, refer to the color of the cable and the rating marked on the connector: if blue, for 115 V; if black, for 220/240 V.

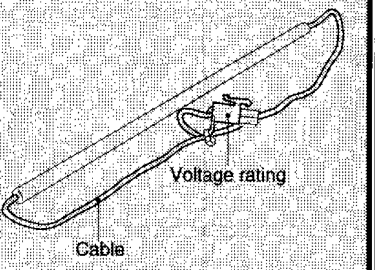


Figure 4-411

COPYRIGHT © 1995 CANON INC.

4. Removing the Blanking Unit

1) Select enlargement mode (141%).
   - Turn on the power switch, and select 141%.
   - Press the Copy Start key.
   - When the lens has moved farthest left, turn off the power.

   Turn off the power, and disconnect the power plug.
2) Remove the multifeeder assembly.
3) Remove the cartridge.
4) Remove the top cover.
5) Remove the DC controller PCB.
6) Remove the two screws ② from the rear of the composite power supply PCB ①.

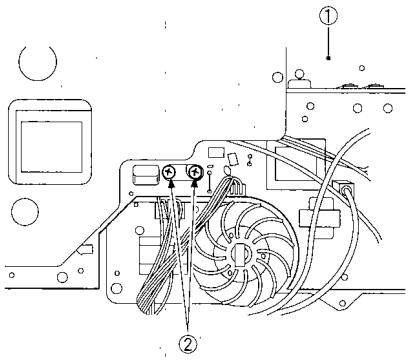


Figure 4-412

7) Open the copier's top unit, and remove the four screws ③; then, remove the blanking unit ④.

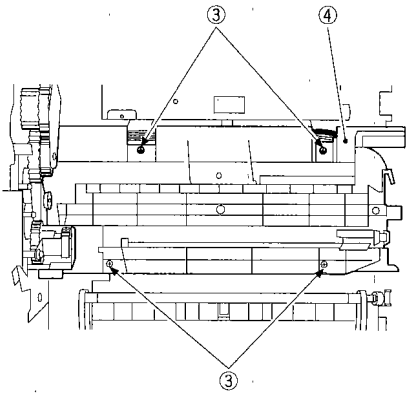


Figure 4-413

Caution:

When installing the blanking unit, make sure that the blanking unit PCB is farthest to both ends and the copier's lens is at the farthest left.

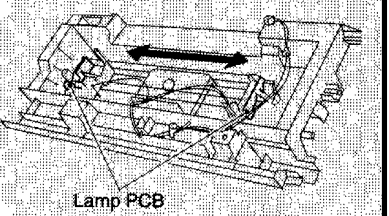


Figure 4-414

COPYRIGHT © 1995 CANON INC.

5. Removing the Pre-Exposure Lamp PCB Unit

1) Remove the drum unit.
2) Disengage the two claws ①, and remove the pre-exposure lamp unit ②.

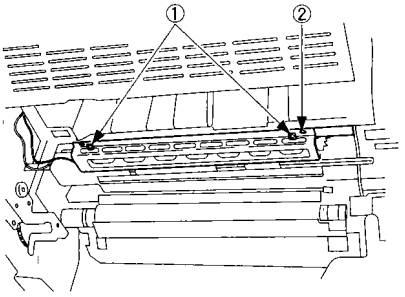


Figure 4-415

3) Remove the screw ③, and remove the pre-exposure lamp unit cover ④.

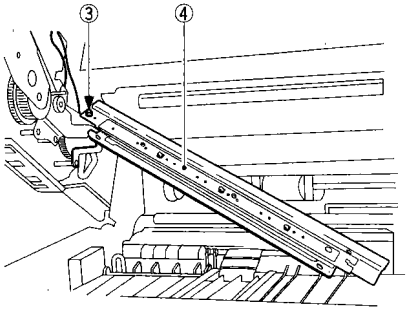


Figure 4-416

4) Disconnect the connector ⑤ (J801), and remove the pre-exposure lamp PCB unit ⑥.

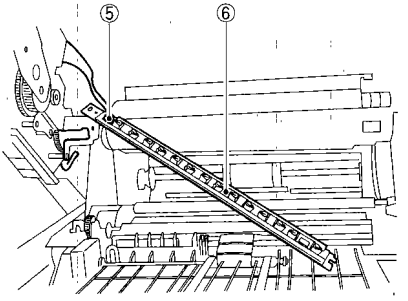


Figure 4-417

Caution:

Perform the following whenever you have replaced the pre-exposure PCB unit.

1) Enter the setting recorded on the service label attached on the back of the PCB using '37' of service mode.

Figure 4-418

2) After executing the mode, execute 'U7' still in service mode.

COPYRIGHT © 1995 CANON INC.

V. CHARGING SYSTEM

A. Drum Unit

1. Outline

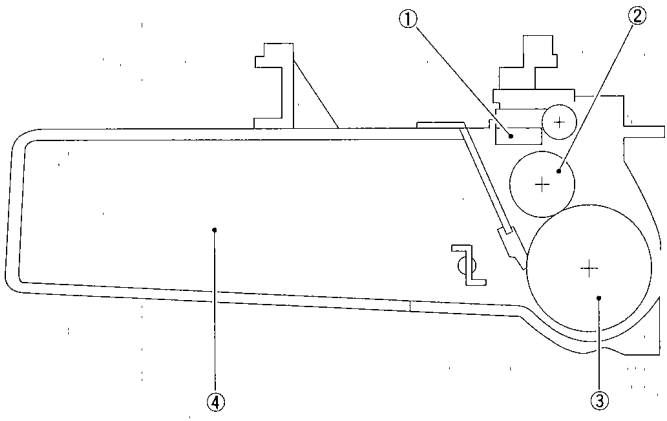


Figure 4-501

① Primary charring roller cleaning pad
② Primary charging roller
③ Photosensitive drum
④ Drum cleaner assembly

COPYRIGHT © 1995 CANON INC.

2. Removing the Drum Unit

1) Open the copier's top unit.

2) Turn the developing locking lever ① counterclockwise.

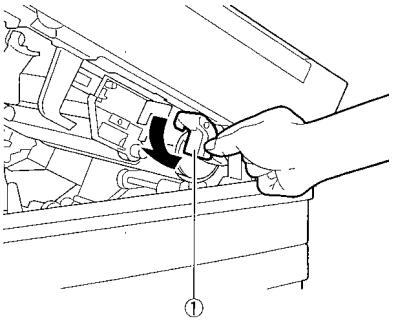


Figure 4-502

3) Turn the fixing lever ② of the drum unit counterclockwise.

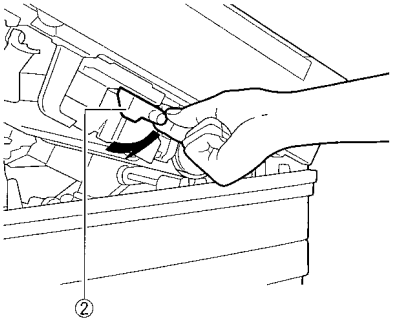


Figure 4-503

4) Pull out the drum unit ③ slowly to the front.

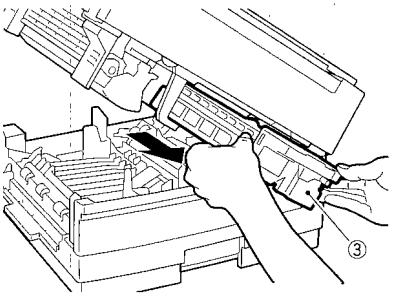


Figure 4-504

Caution:

1. Take care not to damage the photosensitive drum.
2. The photosensitive drum is highly susceptible to light. Exposure even to room light can lead to white spots or black bands on the copies.
3. Do not make a copy without the drum unit installed. Otherwise, excess loads can cause the gears of the drive system to skip teeth, generating abnormal noise.

3. Cleaning

If the surface of the photosensitive drum is soiled, wipe it with a flannel cloth coated with toner. (Do not use paper, lint-free or otherwise.)

Caution:

Do not dry wipe the drum or do not use a solvent.
Do not use drum cleaning powder.

COPYRIGHT © 1995 CANON INC.
CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

4. After Replacing the Drum Unit

1) Record the date and the counter reading in the label ① shown below, and attach the label to the front cover of the new drum unit.

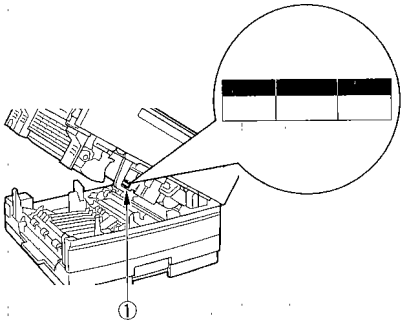


Figure 4-505

2) Execute 'U7', 'installation/drum unit replacement mode', and enter the setting recorded on the service label attached to the drum unit. (This applies only to models with the automatic indication of drum replacement time.)

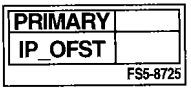


Figure 4-506

B. Transfer Corona Assembly

1. Removing the Transfer Charging Roller

1) Open the copier's top unit.
2) Remove the screw ①.

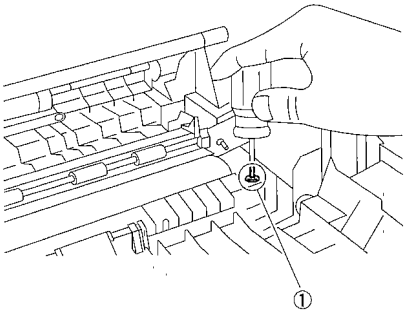


Figure 4-507

3) While disengaging the claw ② of the bushing, remove the transfer charging roller ③.

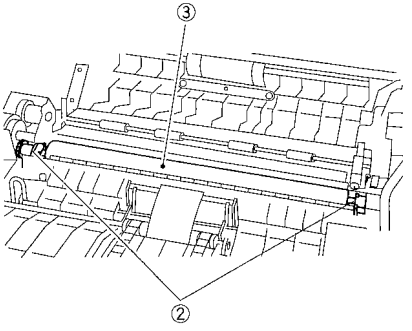


Figure 4-508

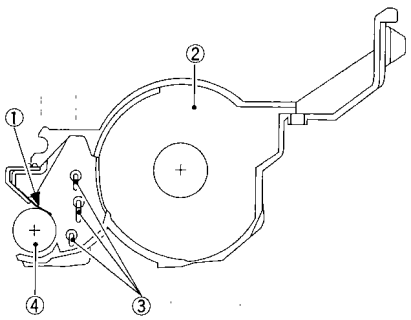
Caution:
Do not touch the roller surface; take care not to soil the roller surface.

COPYRIGHT © 1995 CANON INC.

VI. DEVELOPING ASSEMBLY

A. Developing Assembly

1. Construction



① Blade
② Stirring rod
③ Hopper assembly
④ Developing cylinder

Figure 4-601

2. Removing the Developing Assembly

1) Remove the screws ①, and remove the multifeeder unit ②.

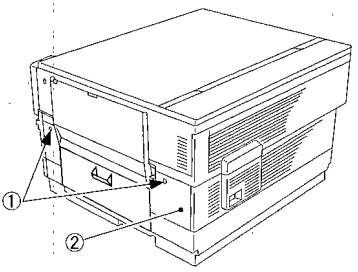


Figure 4-602

2) Open the copier, and remove the two screws ③; then, remove the front upper cover ④.

Caution:
The flexible cable for the control panel is connected to the front upper cover; disconnect the flexible cable from the DC controller.

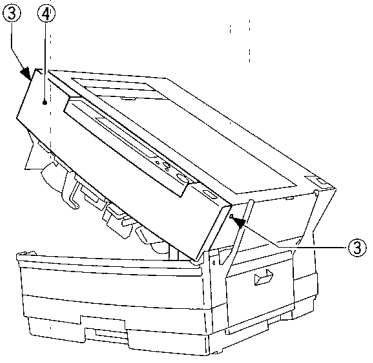


Figure 4-603

COPYRIGHT © 1995 CANON INC.
CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

3) Remove the drum unit.
4) Turn the toner cartridge ⑤ clockwise.

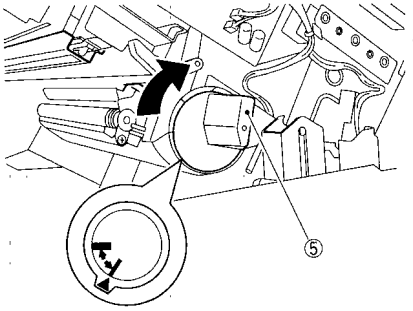


Figure 4-604

5) Put a hand under the developing assembly ⑥, and turn the locking lever ⑦ counterclockwise.
   • Turning the locking lever disengages the developing assembly.

Caution:
Take care not to touch the developing cylinder.

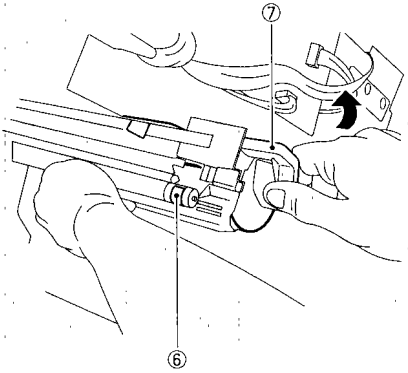


Figure 4-605

3. Installing the Developing Assembly

1) Insert the hook ① of the developing assembly into the hole ② the copier's top unit.

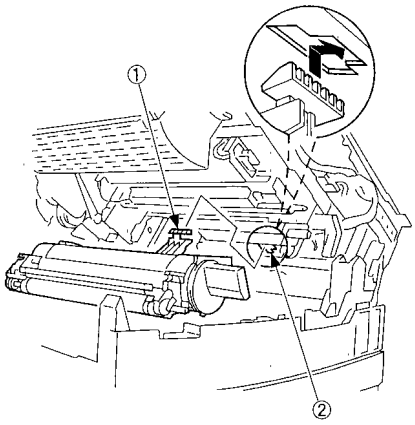


Figure 4-606

2) While working as in step 1), lift the developing assembly and butt the groove ④ of the developing assembly against the hooks ③ at the rear and the front.

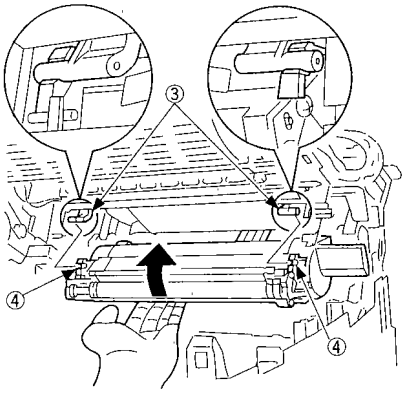


Figure 4-607

COPYRIGHT © 1995 CANON INC.

3) While working as in step 2), turn the locking lever ⑤ clockwise for a single notch.
   • The developing unit will be fixed in position while it remains unlocked.

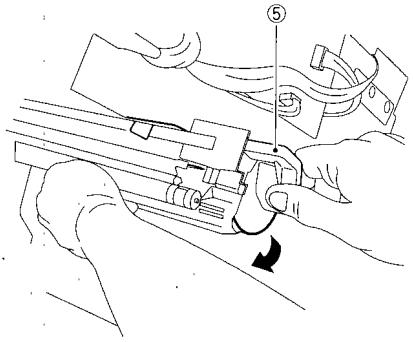


Figure 4-608

4. Removing the Developing Cylinder

1) Remove the developing assembly from the copier.
2) Turn the toner cartridge ① clockwise, and pull it out slowly toward the front.

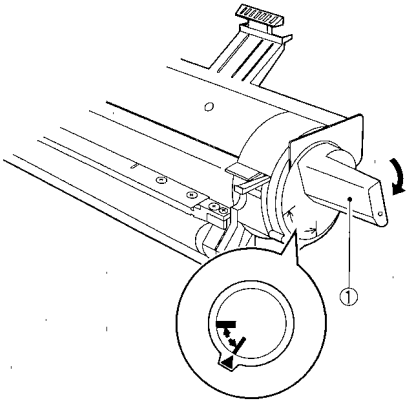


Figure 4-609

3) Clean the area around the toner cartridge you have removed.

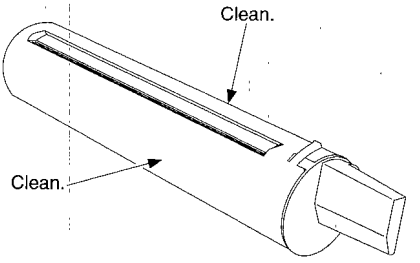


Figure 4-610

4) Remove the five screws ②, and remove the cover ③.

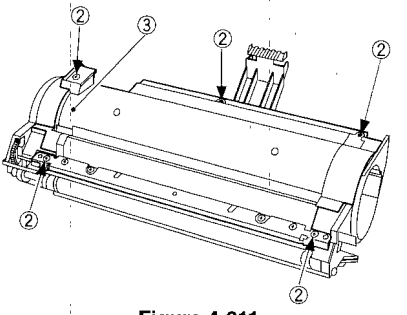


Figure 4-611

Caution:
Take care not to damage the developing cylinder and the blade when removing the blade.

5) Place a newspaper on the floor, and pour out the toner from the developing cylinder.

COPYRIGHT © 1995 CANON INC.
CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

6) Remove the two screws ④, and remove the gear support plate ⑤ from the rear.

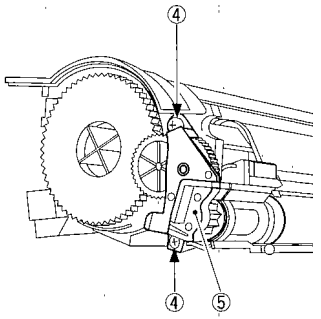


Figure 4-612

7) Remove the two screws ⑥, and remove the developing cylinder support plate ⑦ at the front.

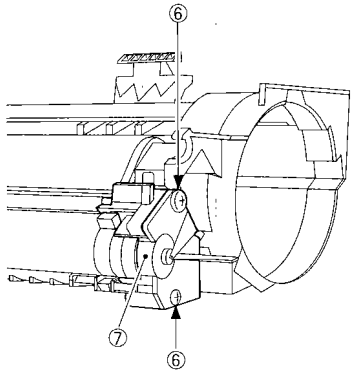


Figure 4-613

8) Remove the gear ⑧, gear ⑨, bearing ⑩, and spacer ⑪; then, remove the developing cylinder ⑫.

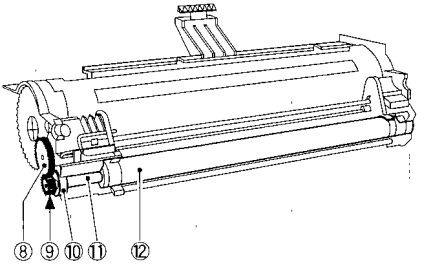


Figure 4-614

5. Points to Note When Installing the Developing Cylinder

a. Clean the compartment in the developing assembly used to store the toner cartridge.

b. Do not leave fingerprints or oils on the surface of the developing cylinder. If necessary, dry wipe the surface with lint-free paper.

c. When installing the developing assembly cover, perform the following:

1) Apply a thin coating of toner on the blade ① with a flannel cloth.

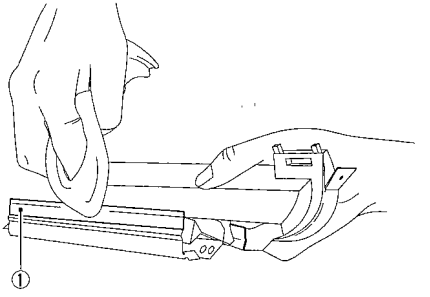


Figure 4-615

COPYRIGHT © 1995 CANON INC.

2) Install the developing assembly cover, and tighten the five screws lightly; then, tighten the screws in the order indicated below.

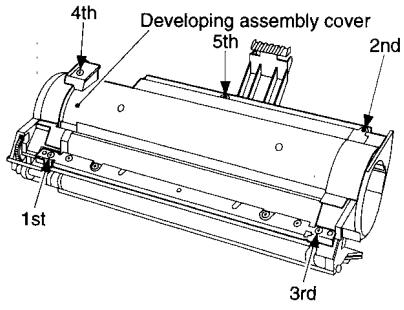


Figure 4-616

3) Turn the drive gear ④ slowly in the direction indicated below to give the developing cylinder a full turn.

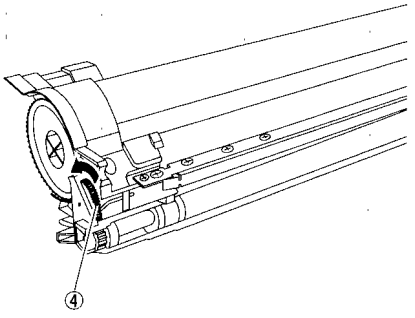


Figure 4-617

6. Points to Note When Installing the Drive Gear

a. Assemble the gears so that all three stirring rods ① face the same direction.

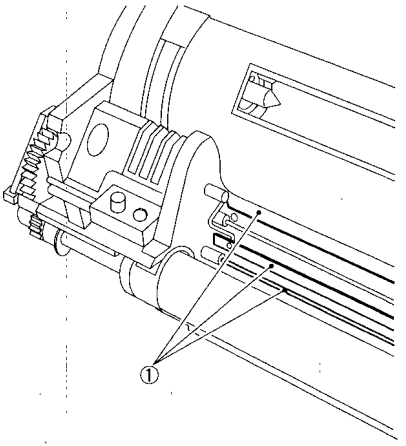


Figure 4-618

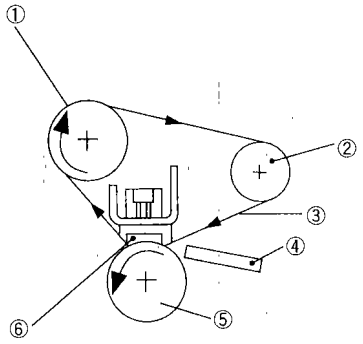
Caution:

If any of the stirring rods does not face the same direction, the interference among the rods can prevent stirring operation.

COPYRIGHT © 1995 CANON INC.

VII. FIXING SYSTEM

1. Construction



① Drive roller
② Tension roller
③ Fixing film
④ Inlet guide
⑤ Lower fixing roller
⑥ Fixing heater

Figure 4-701

Caution:
The fixing film is made of special material; do not touch it or soil it.
The upper fixing unit is to be replaced on a unit basis.

2. Removing the Upper Fixing Unit

1) Open the copier's top unit.
2) Remove the two screws ①, and remove the front upper cover ②.

Caution:
The flexible cable for the control panel is connected to the front upper cover; disconnect the cable from the DC controller PCB.

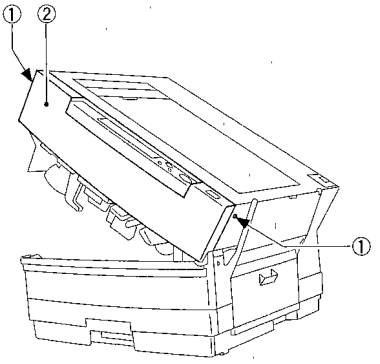


Figure 4-702

3) Disengage the two claws ③, and slide the left cover ④ down to remove.

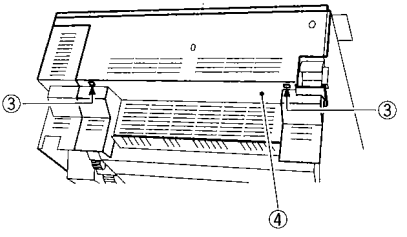


Figure 4-703

COPYRIGHT © 1995 CANON INC.

4) Disconnect the connector ⑤.

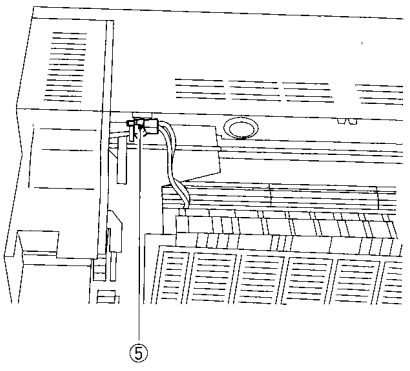


Figure 4-704

5) Disconnect the connectors J112 ⑦, J102 ⑧, and J117 ⑨ from the DC controller PCB ⑥.

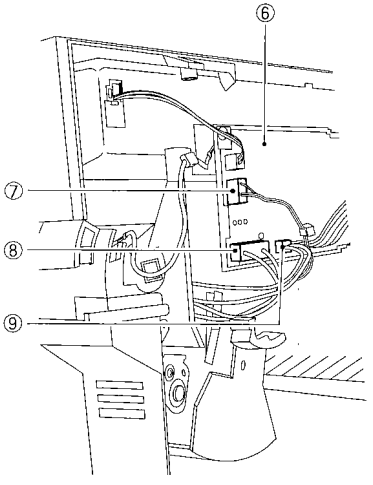


Figure 4-705

6) Remove the screw ⑩, and remove the upper fixing unit fixing plate ⑪.

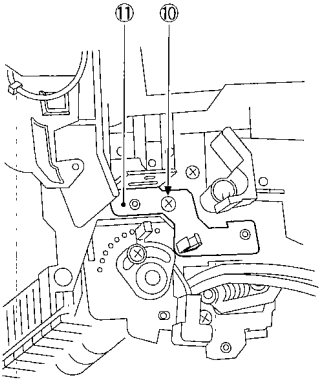


Figure 4-706

7) While avoiding the fixing assembly shutter ⑫, remove the upper fixing unit ⑬ while holding it with copy paper ⑭.

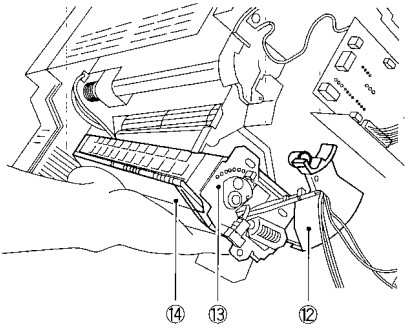


Figure 4-707

COPYRIGHT © 1995 CANON INC.
CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

3. After Replacing the Fixing Assembly

Rotate the fixing assembly film for about 5 min, and check the position of the tension roller.

Before the Work

Mark the position of the tension roller on the front side plate of the upper fixing unit.

1) The position of the tension roller is 'center ±2 mm'. Put markings at +2 mm and -2 mm.

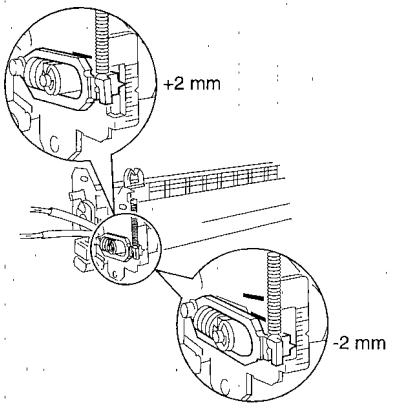


Figure 4-708

Rotating the Fixing Film

1) Turn on the power switch, and short the jumpers JP3 and JP4 on the DC controller PCB with a screwdriver.
   - The ratio/count indicator on the control panel indicates 'F'.

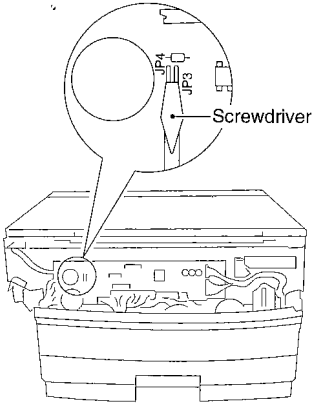


Figure 4-709

2) Stop shorting the jumpers; then, by pressing the +/- key, bring up '40' on the ratio/count indicator on the control panel, and press the Copy Start key.
   - The scanning amp turns on, and the main motor starts to rotate.
3) After about 5 min, make sure that the swing arm is at the center of the markings while the main motor is rotating.

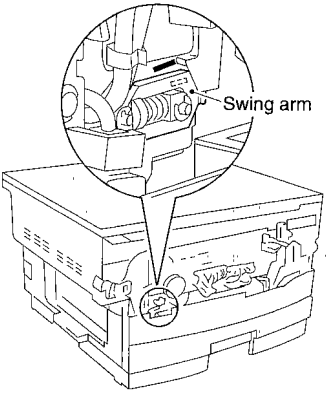


Figure 4-710

4) If the swing arm is not within the markings, press the Clear/Stop key to stop the ongoing operation; then, loosen the fixing screw of the adjusting roll, and turn the roll for 1 to 2 increments to suit the swing of the arm.

Direction of swing (swing arm)	Direction of rotation (adjusting roll)
Farther up than standard	Counterclockwise (moves down the swing arm)
Father down than standard	Clockwise (moves up the swing arm)

Table 4-701

COPYRIGHT © 1995 CANON INC.

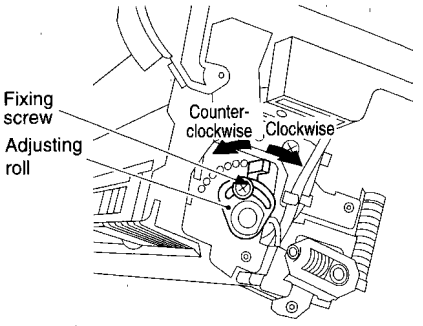


Figure 4-711

5) After making the adjustment, tighten the adjusting roll fixing screw to fix the roll in place.
6) Turn off the power switch, and measure the position of the fixing film from the front side plate of the fixing assembly. The standard is 13 to 17 mm; if it is outside the standard, replace the upper fixing unit.

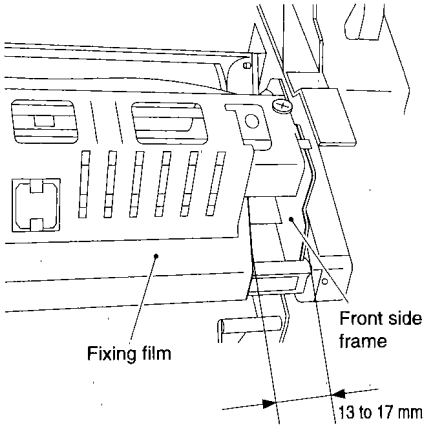


Figure 4-712

4. Removing the Lower Fixing Roller

1) Open the copier's top unit.
2) Remove the delivery roller. (See "1. Removing the Delivery Roller" under "E. Delivery Assembly.")
3) While disengaging the four claws ①, remove the lower fiting roller unit ②.

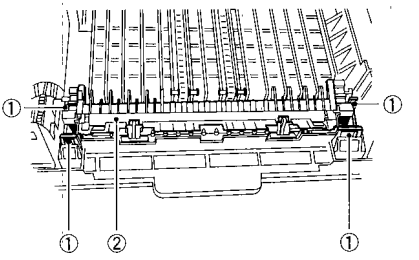


Figure 4-713

4) Remove the two springs ③ and two bushings ④, and remove the lower fixing roller ⑤ and the inlet guide ⑥.

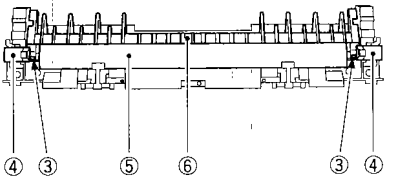


Figure 4-714

COPYRIGHT © 1995 CANON INC.
CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

5) Remove the inlet guide retainer ⑦, and remove the inlet guide ⑥ from the lower fixing roller.

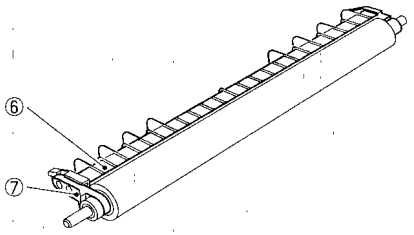


Figure 4-715

COPYRIGHT © 1995 CANON INC.

VIII. ELECTRICAL SYSTEM

A. DC Controller PCB

1. Removing the DC Controller PCB

1) Open the copier's top unit.
2) Remove the two screws ①, and remove the front upper cover ②.

Caution:
The flexible cable for the control panel is connected to the upper front cover; disconnect the cable from the DC controller PCB.

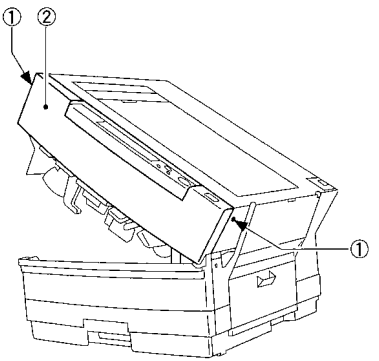


Figure 4-801

3) Disconnect all connectors from the DC controller PCB ③; then, remove the screw ④ and free the six claws ⑤ to remove the DC controller PCB ③.

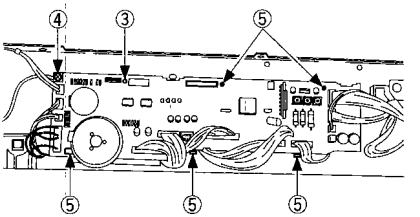


Figure 4-802

COPYRIGHT © 1995 CANON INC.
CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

B. Composite Power Supply PCB

1. Removing the Composite Power Supply PCB

1) Open the copier's top unit.
2) Remove the left cover and the rear cover.
3) Remove the screw ①, and remove the copyboard cover support retainer ②.

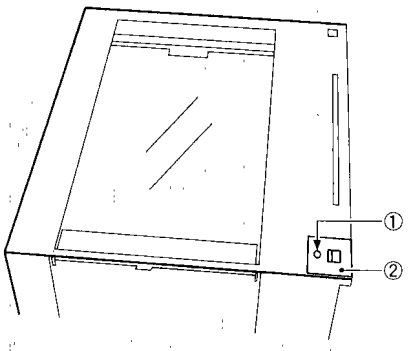


Figure 4-803

4) Disconnect the twelve connectors ④ from the composite power supply PCB ③.

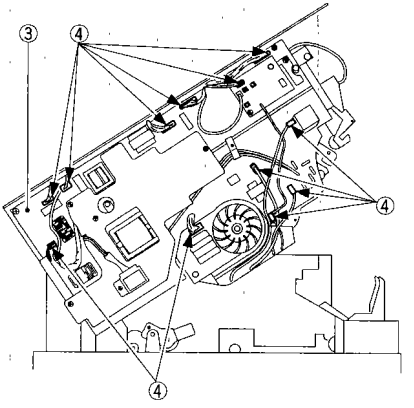


Figure 4-804

5) Remove the seven screws ⑤, and remove the composite power supply PCB ③ while freeing the five claws ⑥.

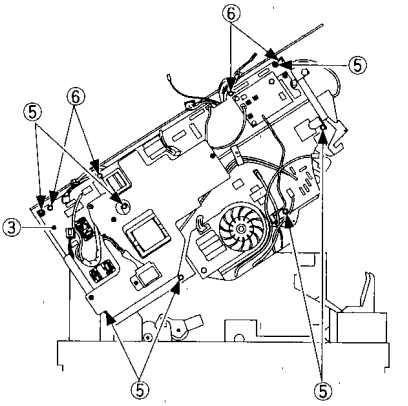


Figure 4-805

2. Points to Note When Handling the Composite Power Supply PCB

Some capacitors on the composite power supply hold charges when the copier's power supply is off.

Take extra care never to short the terminals of the capacitor whenever you have removed the composite power supply PCB.

3. After Replacing the Composite Power Supply PCB

1) Enter the setting recorded on the service label attached to the composite power supply PCB using '34' and '35' of service mode.

	115V	230V
34	PW OFST	
35	IP ADJ	

FB3-0810

Figure 4-806

COPYRIGHT © 1995 CANON INC.

IX. ADF

A. Removing the ADF

1) Pull up the open/close lever ① to open the top unit.

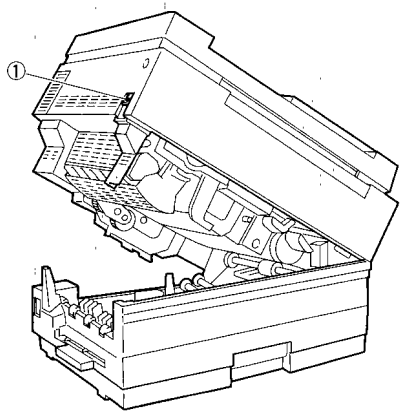


Figure 4-901

2) Disengage the two claws ②, and remove the lower left cover ③ downward.

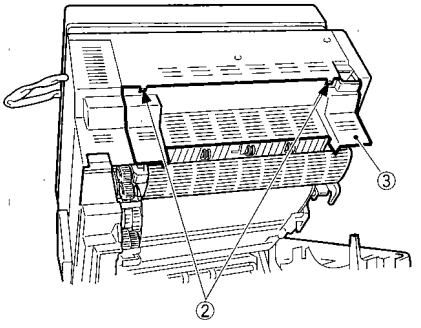


Figure 4-902

3) Remove the screw ④, and remove the rear cover ⑥ while disengaging the four claws ⑤.

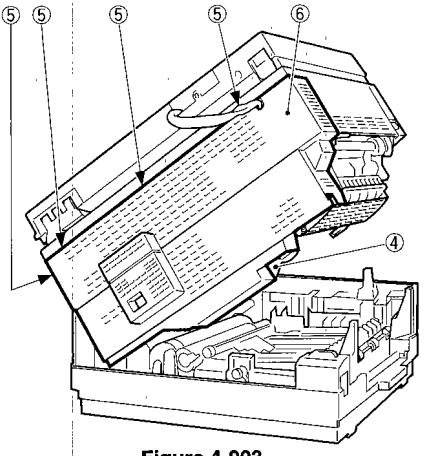


Figure 4-903

4) Close the top unit.
5) Remove the two screws ⑦, and remove the fixing plate ⑧.

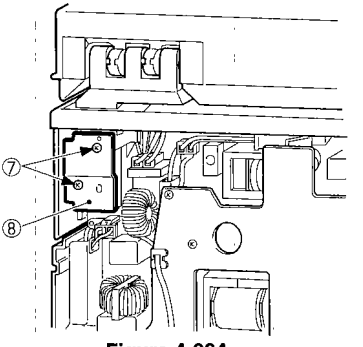


Figure 4-904

COPYRIGHT © 1995 CANON INC.
CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

6) Disconnect the two connectors ⑨, and remove the two lock pins ⑩; then, remove the screw ⑫, and remove the grounding wire ⑪.

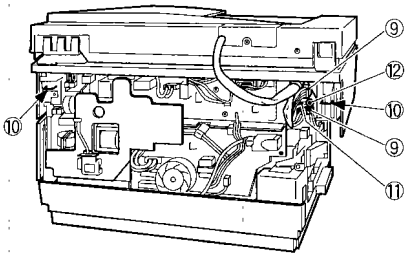


Figure 4-905

7) Remove the cable bush ⑬, and remove the ADF from the copier.

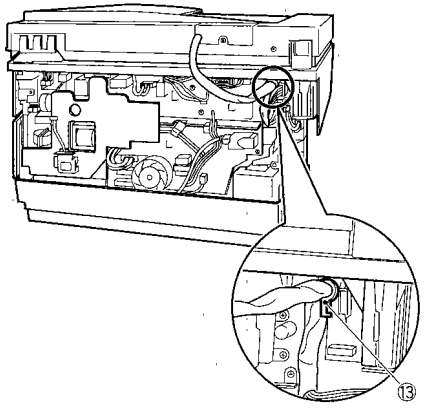


Figure 4-906

B. External Covers

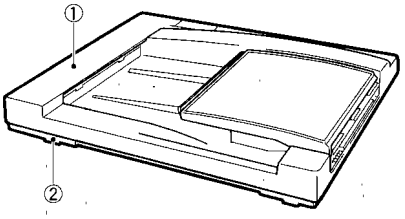


Figure 4-907

① Upper cover
② Lower cover

Remove the covers as follows when cleaning, checking, or repairing the inside of the machine:

1) Remove the ADF from the copier. (See "A. Removing the ADF.")
2) Remove the feeding roller ① from the bushing ②.

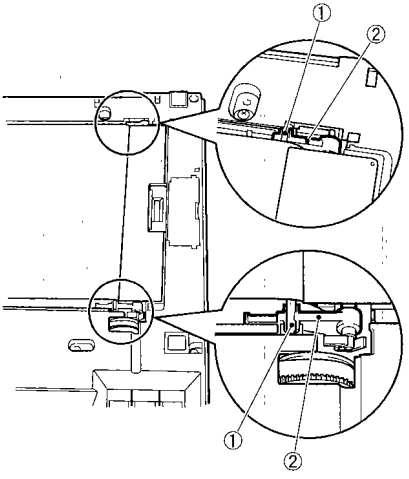


Figure 4-908

COPYRIGHT © 1995 CANON INC.

3) Remove the six screws ③, and separate the lower cover ④ from the upper cover ⑤.

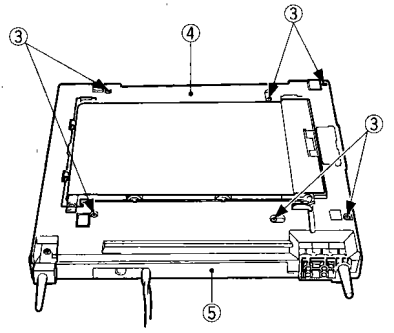


Figure 4-909

4) Disconnect the connector ⑥, and remove the lower cover ④.

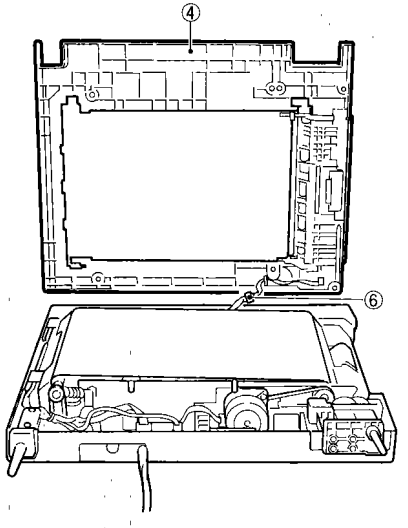


Figure 4-910

C. Drive System

1. Drive Unit

1) Remove the lower cover. (See "B. Removing the External Covers.")
2) Remove the screw ② and the bushing ③; then, remove the pick-up roller cover ①.

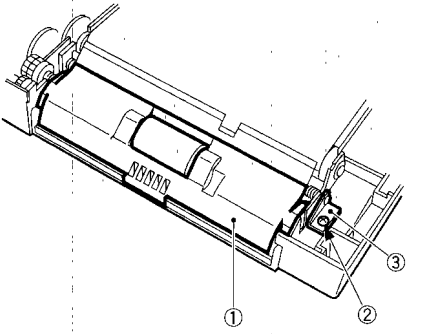


Figure 4-911

3) Remove the E-ring ④, and remove the bearing ⑤.

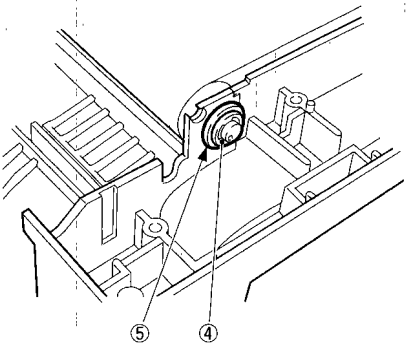


Figure 4-912

COPYRIGHT © 1995 CANON INC.
CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

4) Remove the timing belt ⑥, and remove the feeding belt roller ⑦ by shifting it in the direction of the arrow.

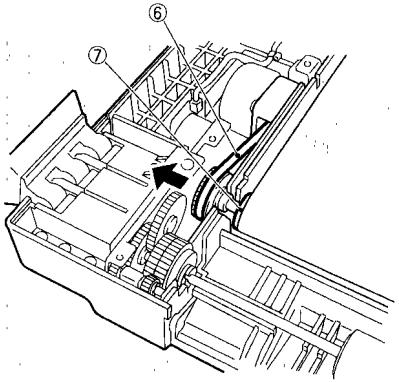


Figure 4-913

5) Remove the five screws ⑨, and remove the right hinge unit ⑧.

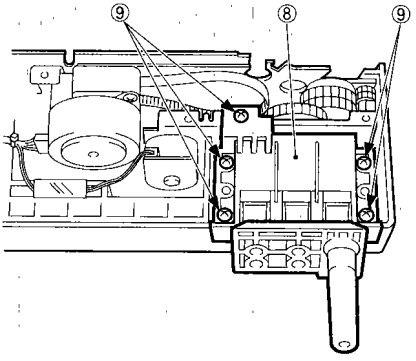


Figure 4-914

6) Remove the stop ring ⑩ (resin) and the bushing ⑪.

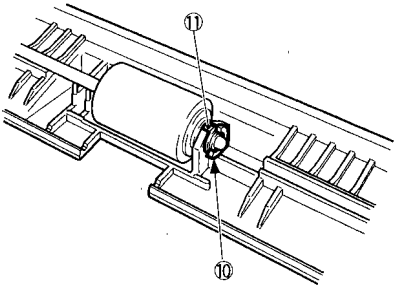


Figure 4-915

7) Disconnect the two connectors ⑫, and remove the five screws ⑬; then, remove the drive unit ⑭.

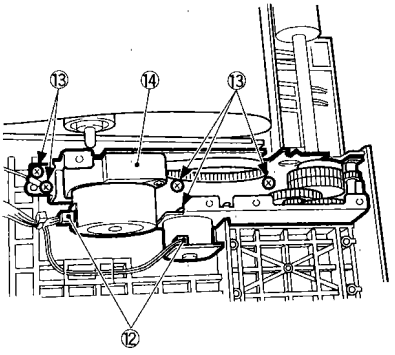


Figure 4-916

D. Feeding System

1. Pick-Up Roller

1) Remove the drive unit ①. (See "1. Drive Unit.")

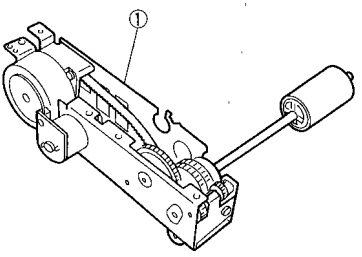


Figure 4-917

COPYRIGHT © 1995 CANON INC.

2) Remove the stop ring ② (made of resin), and remove the pick-up roller ③.

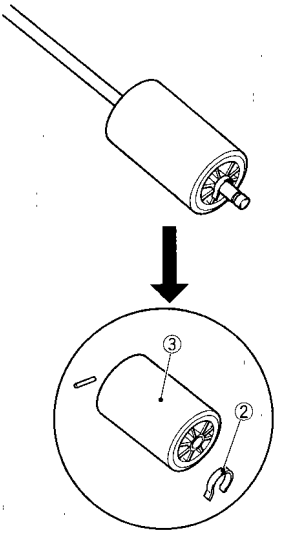


Figure 4-918

2. Registration Roller

1) Remove the lower cover. (See "B. External Covers.")
2) Remove the link arm ① from the registration roller shaft ② by turning the link arm.

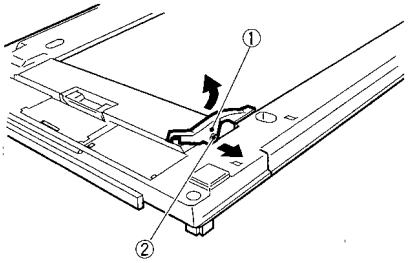


Figure 4-919

3) While pushing the bushing ③ in the direction of the arrow, pull out the registration roller shaft ② slowly.

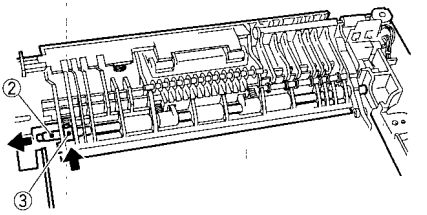


Figure 4-920

Caution:

When installing the registration roller shaft ②, be sure to orient the cut-off of the shaft as follows first.

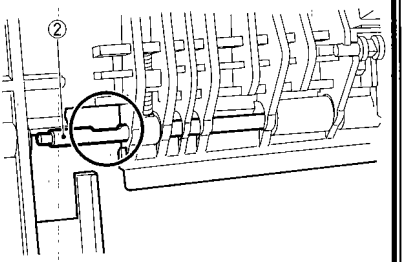


Figure 4-921

COPYRIGHT © 1995 CANON INC.

3. Feeding Belt

1) Remove the lower cover. (See "B. Removing the External Covers.")
2) Remove the two tension springs ①.

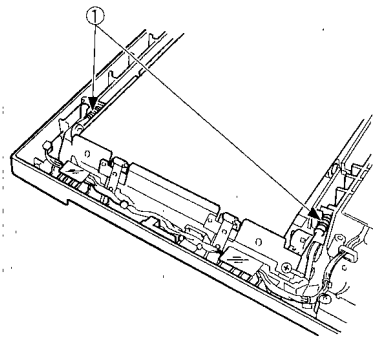


Figure 4-922

3) Remove the E-ring ②, and remove the bearing ③.

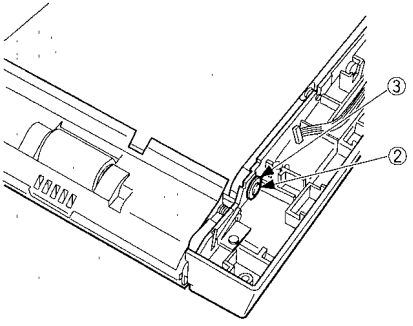


Figure 4-923

4) Remove the timing belt ④, and remove the feeding belt drive roller ⑤ by moving it in the direction of the arrow.

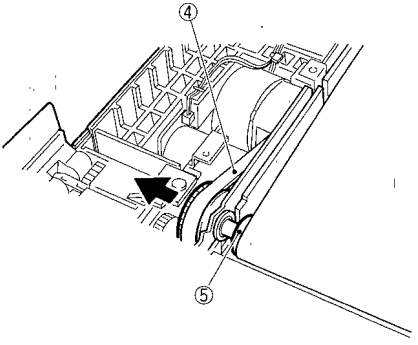


Figure 4-924

5) Remove the two equalizer spring ⑥ and the two feeding belt rolls ⑦.

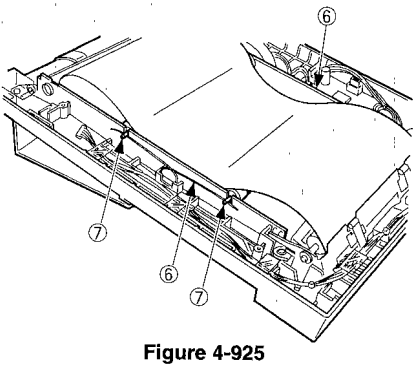


Figure 4-925

COPYRIGHT © 1995 CANON INC.

6) Remove the two screws ⑨, and remove the delivery sensor unit ⑧.

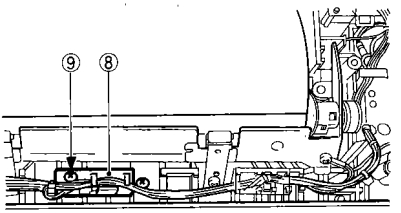


Figure 4-926

7) Remove the stop ring ⑩ (made of resin); then, remove the bushing ⑪.

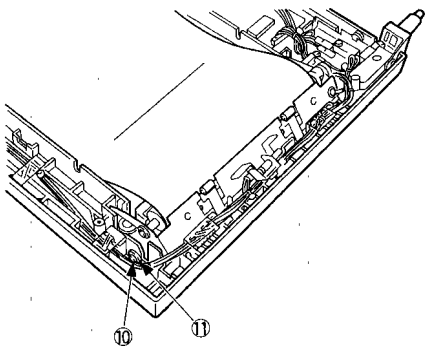


Figure 4-927

8) Remove the screw ⑫, and remove the grounding wire ⑬; then, remove the delivery roller unit ⑭ by moving it in the direction of the arrow.

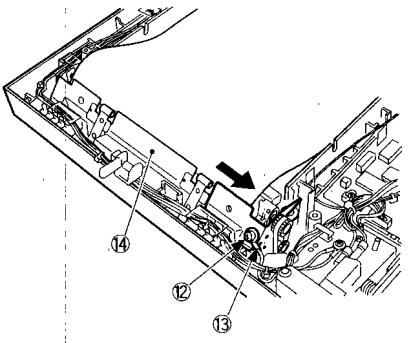


Figure 4-928

9) Remove the screw ⑮, and remove the static eliminating brush ⑯.

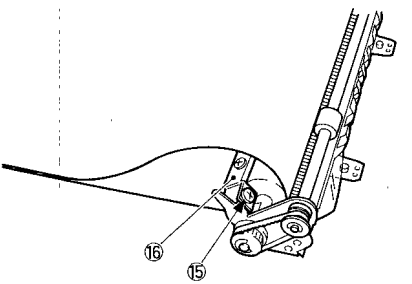


Figure 4-929

COPYRIGHT © 1995 CANON INC.

10) Remove the two E-rings ⑰; then, remove the timing belt ⑱, gear ⑲, and two bushings ⑳.

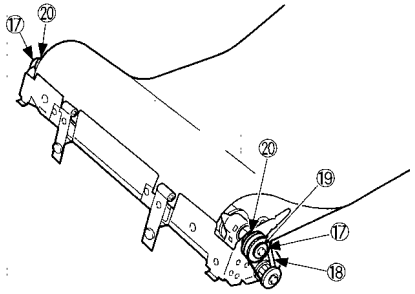


Figure 4-930

11) Pull out the actuator ㉑ in the direction of the arrow; then, remove the feeding belt link roller ㉒, and remove the feeding belt ㉓

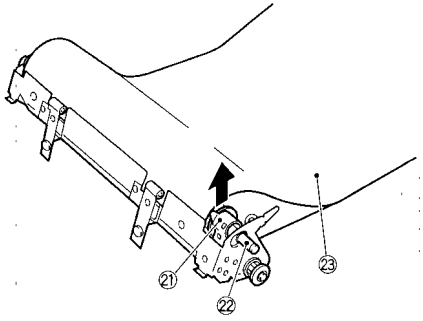


Figure 4-931

COPYRIGHT © 1995 CANON INC.

E. Electrical System

1. ADF Controller PCB

1) Remove the lower cover. (See "B. Removing the External Covers.")
2) Disconnect the five connectors ①, and remove the two screws ②; then, remove the ADF controller PCB ③.

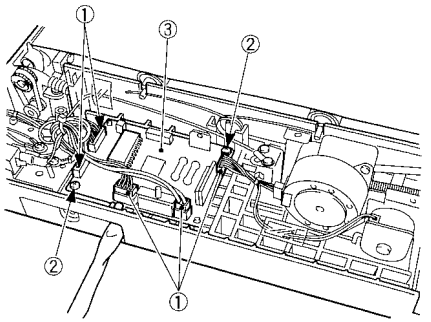


Figure 4-932

2. Original Placement Sensor and Registration Paper Sensor

Pay attention to the colors of the cables and connectors when connecting the connectors of the original placement sensor and the registration paper sensor.

Sensor	Cable color	Connector color
Original placement sensor	Purple	Blue
Registration paper sensor	Yellow	White

Table 4-901

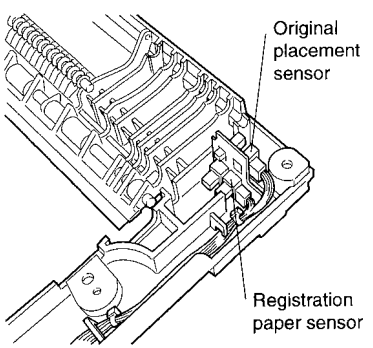


Figure 4-933

COPYRIGHT © 1995 CANON INC.
CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

I. SELECTING THE SITE

Make sure that the site satisfies the following requirements; pay a visit to the user's before the delivery of the machine:

- The site should have an exclusive power outlet that can provide the rated voltage ±10% (15A or more).
- The site's temperature must be 7.5° to 32.5°C and humidity, 5% to 85%. Avoid areas near water faucets, water boilers, humidifiers, and refrigerators.
- Avoid areas near sources of fire or areas subject to ammonium gas and direct rays of the sun. (As necessary, provide curtains.)
- The site must be well ventilated. The amount of ozone generated by the copier while in use will not affect the health of the individuals around it. Some, however, may find the odor unpleasant, and it is important to keep the site well ventilated.
- The site should be able to keep the copier level, with its feet firmly in contact.
- The site must allow at least 10 cm of space from all walls enough for the operation of the machine.

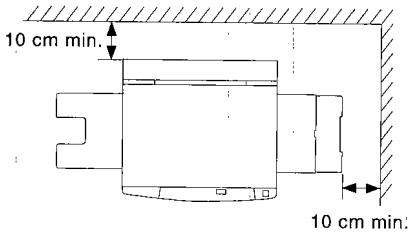


Figure 5-101

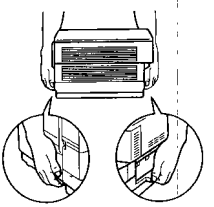
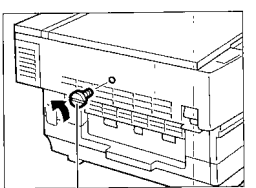
COPYRIGHT © 1995 CANON INC.

II. UNPACKING AND INSTALLATION

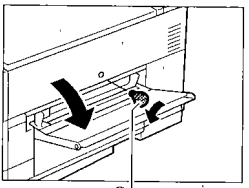
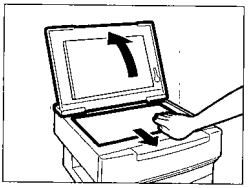
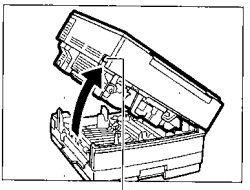
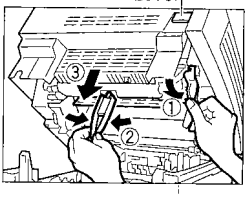
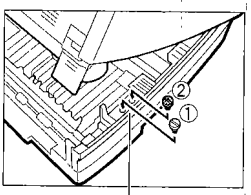
When a piece of metal is brought in from a cold to warm place, droplets of water tend to form on its surface. The phenomenon is called *condensation*, and a copier subjected to condensation often produces blank copies. If you are installing a copier brought in from a cold place, leave it alone unpacked for one hour or more until it becomes acclimatized to the room.

A. Unpacking and Installing

1. Setting up the Copier

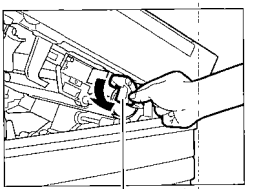
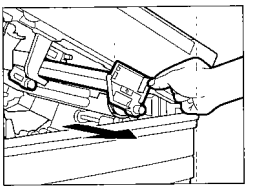
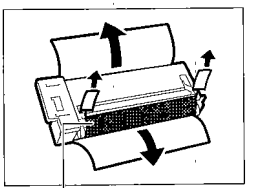
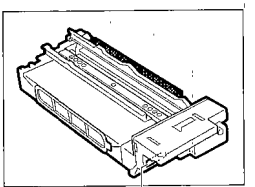
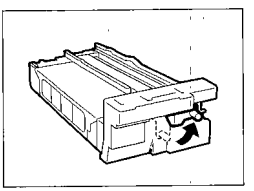
Step	Work	Checks	Remarks
1	Take out the copier and accessories, and make sure none of the accessories is missing.	To take out the copier, remove the cushioning materials from its left/right and top, and hold it by hooking hands under its grips.  Accessories ① Cassette ② Copy tray ③ Power cord ④ Operator's manual ⑤ Drum unit	
2	Remove the shipping attachment ① on the left side of the main unit. (In step 8, insert the shipping attachment ① in the shipping attachment holder.)	 Shipping attachment①	**Note:** You will need this shipping attachment whenever you transport the copier, so store it in shipping attachment holder.

COPYRIGHT © 1995 CANON INC.
CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

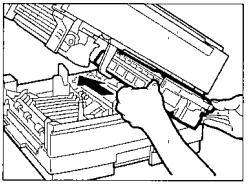
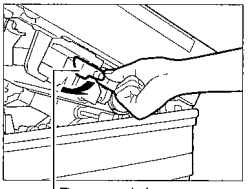
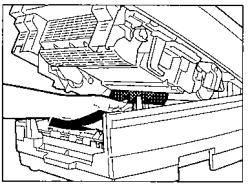
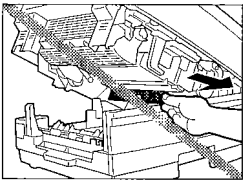
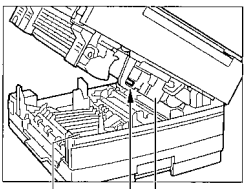
Step	Work	Checks	Remarks
3	Remove the shipping attachment ② on the right side of the main unit. (In step 7, insert the shipping attachment ② in the shipping attachment holder.)	 Shipping attachment ②	**Note:** You will need this shipping attachment wherever you transport the copier, so store it in the shipping attachment holder.
4	Raise the platen glass cover and remove the sheet from the platen glass.		
5	Lift the main unit lever on the left side to open the top of the main unit.	 Lever	
6	Squeeze and remove the attachment located inside under the top of the main unit.	Lever 	
7	Insert the shipping attachment ① and ② in the shipping attachment holder which were removed in steps 2 and 3.	 Shipping attachment holder	

COPYRIGHT © 1995 CANON INC.

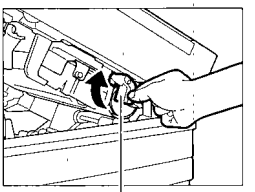
2. Installing the Drum Unit

Step	Work	Checks	Remarks
1	Turn the fixing lever counter-clockwise.	 Fixing lever	
2	Remove the dummy drum.		
3	Remove the drum unit from its shipping bag. Place a new drum unit on a flat surface, remove the bubble sheet that is wrapped around the drum unit. (Do not remove the protective sheet placed between the drum unit yet.) Next, remove the two protective pieces.	 Protective sheet	**Note:** If the protective sheet placed between the drum unit is removed, do not touch the purple coloured surface of the drum.
4	Write down the numbers from the labels which are attached to the drum unit. PRIMARY IP_OFST	 Label	**Note:** You will need to know these numbers in steps 4 and 6 of "Main Unit Adjustment Operations," so it is important that you write them down to have a record of them. Only if working on a model without the automatic indication function for drum replacement time.
5	Turn the drum unit lever counter-clockwise.		**Note:** If you do not turn the drum unit lever counter-clockwise, then you cannot insert the drum unit.

COPYRIGHT © 1995 CANON INC.
CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

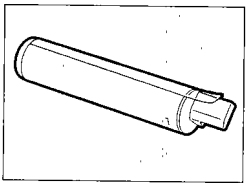
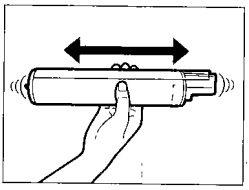
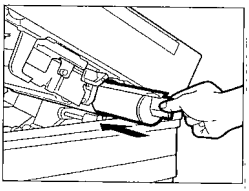
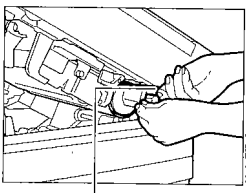
Step	Work	Checks	Remarks
6	Insert the drum unit in the direction shown in the illustration to the right. Holding the drum unit level, gently slide it into the copier. • Make sure that the drum unit is inserted all the way into the copier.		**Note:** When inserting the drum unit, do not touch the purple colored surface of the drum under the black sheet; doing so will adversely affect the copy quality.
7	Turn the drum unit lever clockwise, to lock the drum unit in place.		
8	Pull the protective sheet straight out of the left side of the copier.	 	**Note:** Pull the protective sheet o ut straight from the left side of the drum unit. If the black sheet is pulled out from the front, it might adversely affect the quality of your copies.
9	Write down the date of installation of the drum unit and the counter number on the date/counter labels that come packed together with the drum unit. Afterwards, attach the labels to the drum unit.		

COPYRIGHT © 1995 CANON INC.

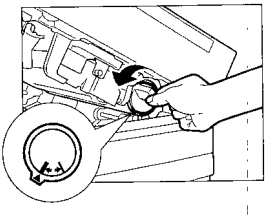
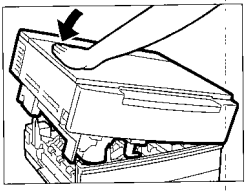
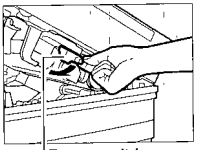
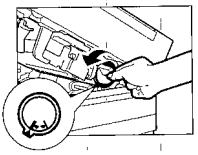
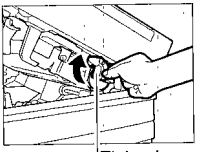
Step	Work	Checks	Remarks
10	Turn the fixing lever clockwise, to lock the inside of the main unit in place.	 Fixing lever	**Note:** If you did not turn the drum unit lever clockwise in step 6 of "Installing the Drum Unit" then you cannot turn the fixing lever clockwise. If you do not turn the fixing lever clockwise then you cannot close the main unit.

COPYRIGHT © 1995 CANON INC.
CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

3. Installing the toner Cartridge

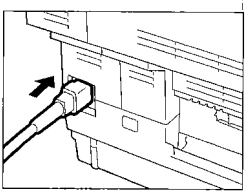
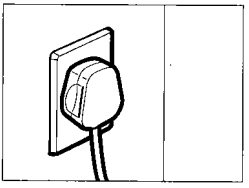
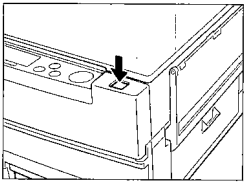
Step	Work	Checks	Remarks
1	Prepare to insert a new toner cartridge. **⚠Caution:** Do NOT throw the toner cartridge into fire; it can burst or explode.		
2	Hold the new toner cartridge level. Rock the cartridge to evenly distribute the toner within the cartridge.		
3	Hold the new toner cartridge level and gently insert it into the copier as far as it will go.		**Note:** Make sure that the toner cartridge is inserted all the way into the copier.
4	Pull the toner cartridge sealing tape off. Pressing down on the toner cartridge, grip the orange sealing tape tab and pull the sealing tape straight out of the cartridge. **Caution:** Never dispose of a sealing tape in a fire or incinerator.	 Sealing tape	**Notes:** • Pull the toner cartridge sealing tape off s traight. • Some toner may stick to the toner cartridge seal, so be careful not go get toner on your clothes.

COPYRIGHT © 1995 CANON INC.

Step	Work	Checks	Remarks
5	Grip the toner cartridge handle. Turn the cartridge counter-clockwise until it locks into place.		**Note:** Turn the toner cartridge counter-clockwise all the way until it locks into place. If it is not locked into place, you cannot close the main unit. If the toner cartridge handle cannot be turned, then make sure that the toner cartridge is inserted into the copier as far as it will go.
6	Close the main unit by pressing down firmly on the part marked "✋".		**Note:** Make sure of the following three points before closing the top unit. 1. The drum unit has been installed, and the drum unit lever is at the LOCK position.  Drum unit lever 2. The toner cartridge has been turned and positioned as specified.  3. The fixing lever is at the LOCK position.  Fixing lever Unless the above three points are satisfied, the lock mechanism will activate, preventing the top unit from closing.

COPYRIGHT © 1995 CANON INC.
CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

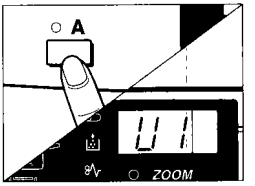
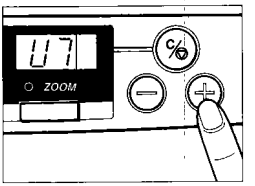
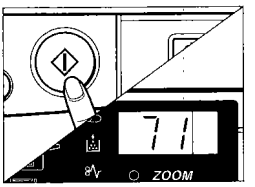
4. Connecting the Power Cord

Step	Work	Checks	Remarks
1	Plug one end of the power cord into the copier power inlet.		**Note:** Do not insert the copier plug, press the power switch or turn the power ON before completing the steps 2 to 6 of the Setting Up the Copier. If you do, you could damage your copier.
2	Plug the other end of the power cord into an outlet. **Caution:** This copier is designed for use with a power source matching the power requirements shown on the marking label at the back of the copier. If you are unsure of the power source, check with your local power company.		
3	Press the power switch ON. • "P" appears in the Copy quantity/Copy ratio display. If the model is without the automatic indication function for drum unit replacement time, the main motor rotates for about 1 min to execute automatic adjustment of the drum unit; the main motor stops automatically after automatic adjustment.		

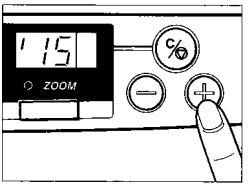
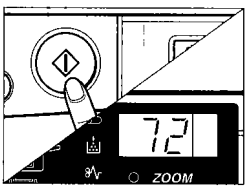
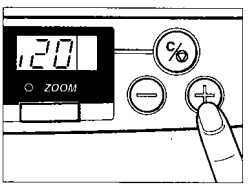
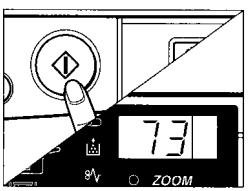
COPYRIGHT © 1995 CANON INC.

5. Main Unit Adjustment Operations

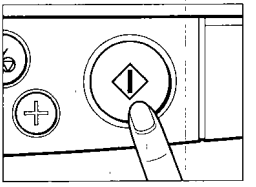
applies only to models without automatic indication for drum unit replacement.

Step	Work	Checks	Remarks
1	Main unit adjustment operations are performed from the Adjustment Operations mode. To enter this mode, hold down the A key for approximately four seconds or longer. After approximately four seconds have elapsed, "U1" appears in the Copy quantity/Copy ratio display.		
2	Enter the Installation Adjustment Operations mode ("U7"). Press down the [+] key until "U7" appears in the Copy quantity/Copy ratio display. • If you make a mistake, press the [+] or [-] key until the desired value appears in the display.		
3	Press the Start (◇) key. "71" will appear in the Copy quantity/Copy ratio display and you will enter the Voltage Adjustment mode.		

COPYRIGHT © 1995 CANON INC.
CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

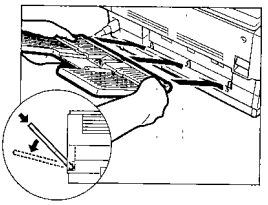
Step	Work	Checks	Remarks
4	Adjust the voltage. Press the [+] or [-] keys to enter the value for label "PRIMARY" which you wrote down in step 4 of "Installing the Drum Unit" on p. 5-4. • If you make a mistake, press the [+] or [-]key until the desired value appears in the display. • While adjusting the voltage, "/" will appear in the Copy quantity/Copy ratio display.		
5	Press the Start (◇) key. "72" will appear in the Copy quantity/Copy ratio display and you will enter the Electric Current Adjustment mode.		
6	Adjust the electric mode. Press the [+] or [-] keys to enter the value for label "IP_OFST" which you wrote down in step 4 of "Installing the Drum Unit". • If you make a mistake, press the [+] or [-] key until the desired value appears in the display. • While adjusting the electric current, "/" will appear in the Copy quantity/Copy ratio display.		
7	Press the Start (◇) key. "73" will appear in the Copy quantity/Copy ratio display and you will enter the Automatic Toner Distribution Adjustment mode.		

COPYRIGHT © 1995 CANON INC.

Step	Work	Checks	Remarks
8	Press the Start (◇) key. An automatic adjustment operation within the main unit will be performed and then this will be followed by an automatic toner distribution operation. When these automatic operations are finished, "1" will appear in the Copy quantity/Copy ratio display and copies can be made. When automatic operation ends, the message on the Copy quantity/Copy ratio display changes from flashing "73" to the following: if paper is present in the cassette, "1" (on). if paper is absent in the cassette, "P" (on). • It will take approximately one minute for the copier to complete the automatic adjustment and toner distribution operations. While these operations are being performed, it is recommended that you performed the next installation operations.		

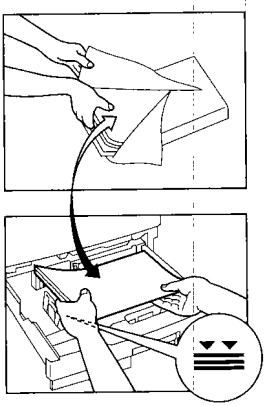
COPYRIGHT © 1995 CANON INC.
CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

6. Installing the Copy Tray

Step	Work	Checks	Remarks
1	Insert the copy tray into the copier. Insert the copy tray so that it fits into the three holes located on the side of the copier. • Make sure that the copy tray is inserted into the copiers as far as it will go.		

COPYRIGHT © 1995 CANON INC.

7. Loading Paper in the Cassette

Step	Work	Checks	Remarks
1	Remove the materials from inside the cassette, and adjust the paper width and length guides inside the cassette to suit the size of copy paper; then, set copy paper. • For more details, see p. 5-16.	• The copy paper has its face and back; be sure to place it correctly inside the cassette butting it against the right side of the cassette. • Make sure that the stack of copy paper is not above the height index on the inner side of the paper width guide. 	

COPYRIGHT © 1995 CANON INC.
CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

8. Checking the Operation

Step	Work	Checks	Remarks
1	Set the Test Sheet on the copyboard, and check copying operation.	• Make sure there is no abnormal noise. • Make sure that as many copies as specified are made normally.	
2	Clean the copier's exterior and the area around it.		

COPYRIGHT © 1995 CANON INC.

B. Setting Copy Paper

Adjust the paper width and length guides inside the cassette to suit the size of copy paper.

1) Slide out the cassette from the copier.
2) Move the paper length guide inside the cassette to suit the length of the copy paper to be used.

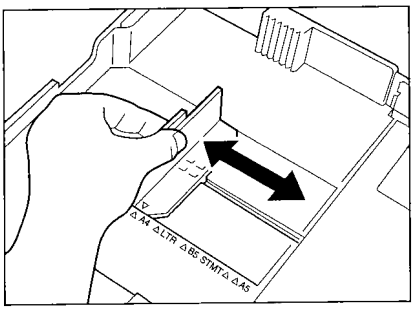


Figure 5-201

3) Move the paper width guide inside the cassette to suit the width of the copy paper to be used.

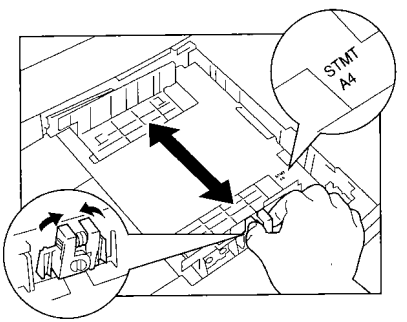
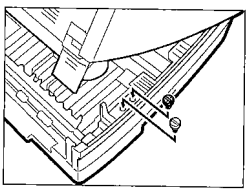
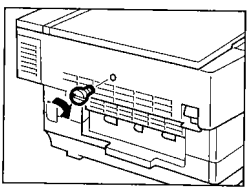
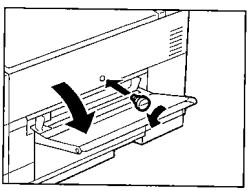


Figure 5-202

COPYRIGHT © 1995 CANON INC.

III. RELOCATING THE COPIER

Go through the following steps if you must relocate the copier by truck or other means of transportation:

Step	Work	Checks
1	Turn on the power switch, and press the Default Ratio key to select 70%.	
2	Press the Paper Select key to select the multifeeder tray.	
3	Without placing any paper on the multifeeder tray, press the Copy Start key.	The machine automatically makes adjustments for installation of the fixing screw. • When the adjustment is over, the indicator representing the multifeeder on the control panel starts to flash and the count/ratio indicator indicates 'P'.
4	Turn off the power switch, and disconnect the power plug.	
5	Lift the copier open/close lever, and open the copier.	
6	Take out the screws stored at time of installation.	
7	Close the top unit securely, and tape it to prevent it from opening.	
8	Place A4 copy paper on the copyboard glass, close the copyboard cover, and tape it in place.	
9	Fit the screws taken out in step 6 to the left and the right of the copier.	 

COPYRIGHT © 1995 CANON INC.

I. PERIODICALLY REPLACED PARTS

The copier does not have a part to be replaced on a periodical basis.

II. DURABLES AND CONSUMABLES

The copier does not have a part classified as a durable or consumable part.

III. SCHEDULED SERVICING

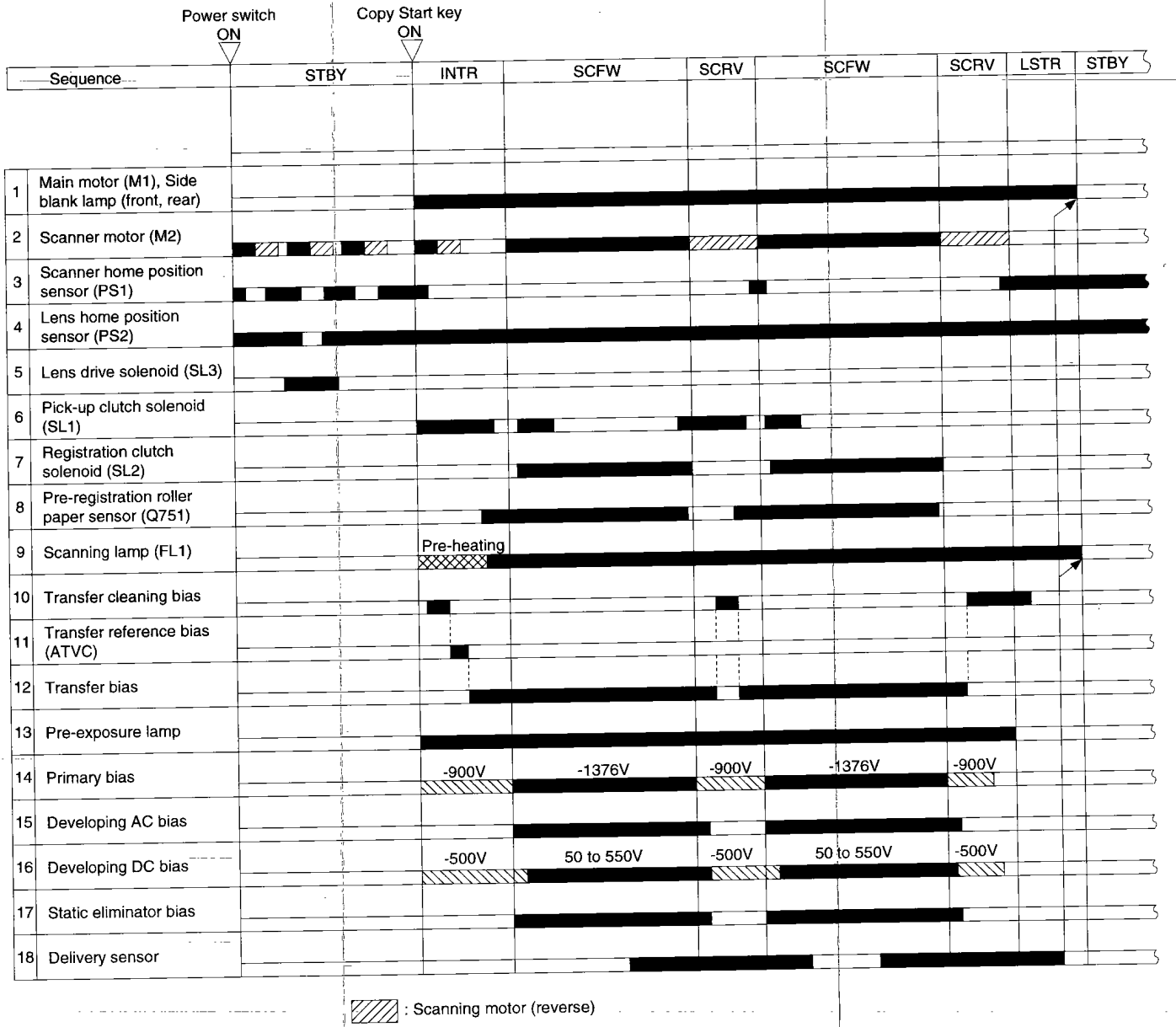
The copier has no part that must be serviced on a periodical basis.

COPYRIGHT © 1995 CANON INC.
CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

A. GENERAL TIMING CHART

1.NP6012

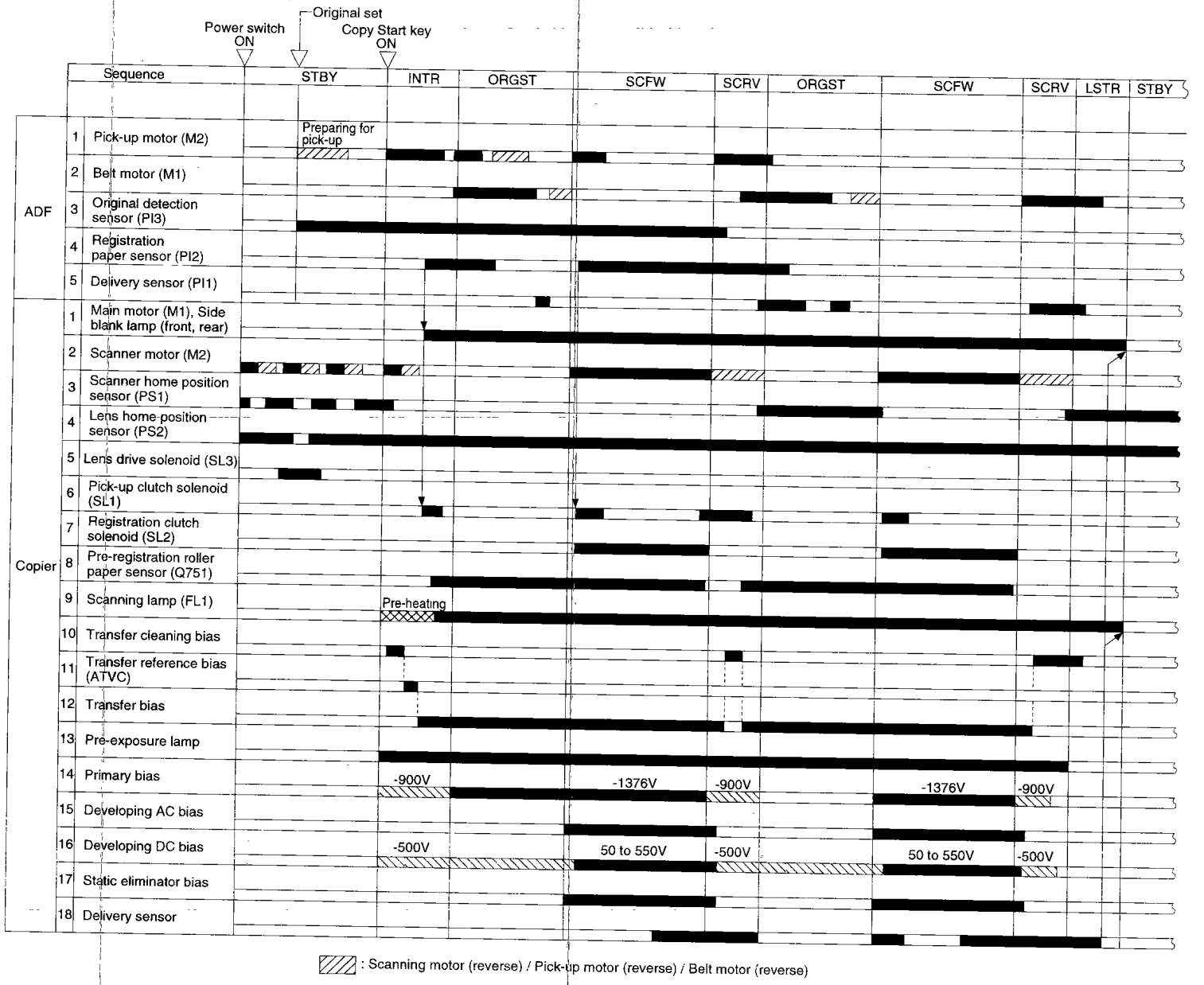
(A4, 2 copies, DIRECT, from cassette)



COPYRIGHT © 1995 CANON INC.

CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

(A4, 2 copies, DIRECT, from cassette)



COPYRIGHT © 1995 CANON INC.

CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

B. SIGNALS AND ABBREVIATIONS

1.Signals

ACBIAS	AC BIAS OSCILLATION signal
ADFC	ADF CLOSED signal
AE	AE SENSOR OUTPUT signal
AEREF	AE SENSOR REFERENCE signal
BIASS	DEVELOPING DC BIAS VOLTAGE DETECTION signal
CLSLD	CLEANING SOLENOID DRIVE command
CPD	CASSETTE PAPER DETECTION signal
DCBPWM	DC BIAS CONTROL signal
DPD	DELIVERY PAPER DETECTION signal
DVACON	DEVELOPING AC BIAS ON signal
DVDCON	DEVELOPING DC BIAS ON signal
FFD	FIXING FILM POSITION signal
FL ON	FLUORESCENT LAMP ON command
FLEXP	SCANNING LAMP INTENSITY signal
FLPRHT	PRE-HEAT VOLTAGE CONTROL signal
HTNG	FUSER HEATER NG signal
HTRD	HEATER DRIVE command
LHP	LENS HOME POSITION signal
LNSLD	LENS SOLENOID DRIVE command
MA	BELT MOTOR (A) DRIVE command
MB	BELT MOTOR (B) DRIVE command
MFSLD	MULTIFEEDER PICK-UP SOLENOID DRIVE command
MLOCK	MAIN MOTOR LOCK signal
MMCLK	MAIN MOTOR CLOCK signal
MMD	MAIN MOTOR DRIVE command
PACON	PRIMARY BIAS ON signal
PDCPWM	PRIMARY DC BIAS CONTROL signal
PDP1	PAPER DETECTION signal 1
PDP2	PAPER DETECTION signal 2
PDP3	PAPER DETECTION signal 3
PM	PICK-UP MOTOR DRIVE signal
PUSLD	PICK-UP CLUTCH SOLENOID DRIVE command
RGSLD	REGISTRATION CLUTCH SOLENOID DRIVE command
RPD	REGISTRATION PAPER DETECTION signal
SBLP	SIDE BLANK EXPOSURE LAMP ON signal
SC-A	SCANNER MOTOR PULSE command A
SC-A*	SCANNER MOTOR PULSE command A*
SC-B	SCANNER MOTOR PULSE command B
SC-B*	SCANNER MOTOR PULSE command B*
SC-COMA	SCANNER MOTOR DRIVE command A
SC-COMB	SCANNER MOTOR DRIVE command B
SCHP	SCANNER HOME POSITION signal
SPD	SINGLEFEEDER PAPER DETECTION signal
TFDBCK	TRANSFER VOLTAGE MONITOR signal
TFWDRV	TRANSFER DC BIAS CONTROL signal
TFWON	TRANSFER DC BIAS ON signal
TFWS	TRANSFER CURRENT DETECTION signal
TH1	FIXING MAIN THERMISTOR signal
TH2	FIXING SUB THERMISTOR signal
TNMONI	TONER LEVEL signal
TREVON	TRANSFER POSITIVE BIAS ON signal
WTOF	EXCESS WASTE TONER signal

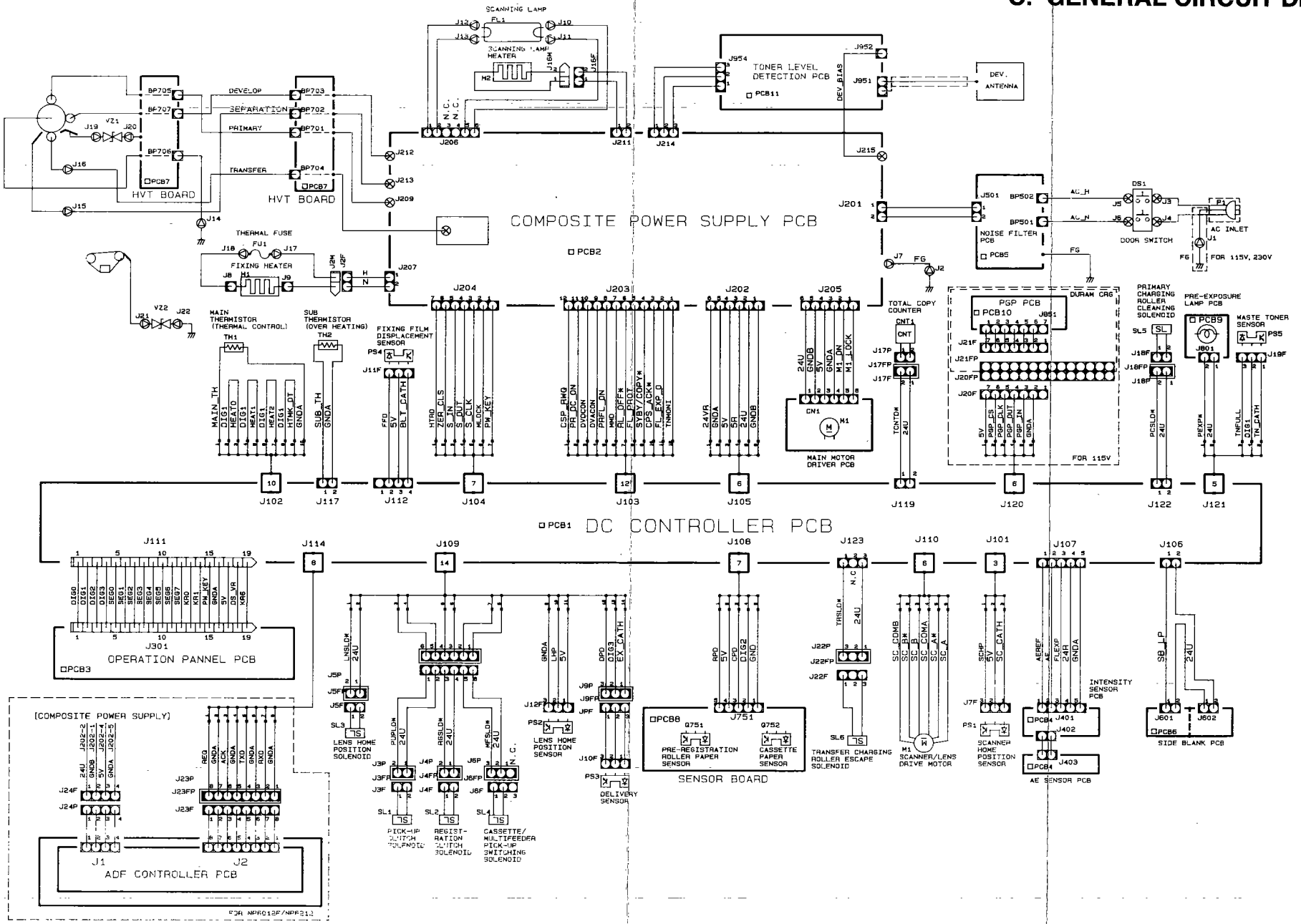
2. Abbreviations

CBFW	COPY BOARD FORWARD
CBRV	COPY BOARD REVERSE
INTR	INITIAL ROTATION
LSTR	LAST ROTATION
ORGST	ORIGINAL SET
STBY	STANDBY

COPYRIGHT © 1995 CANON INC.
CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

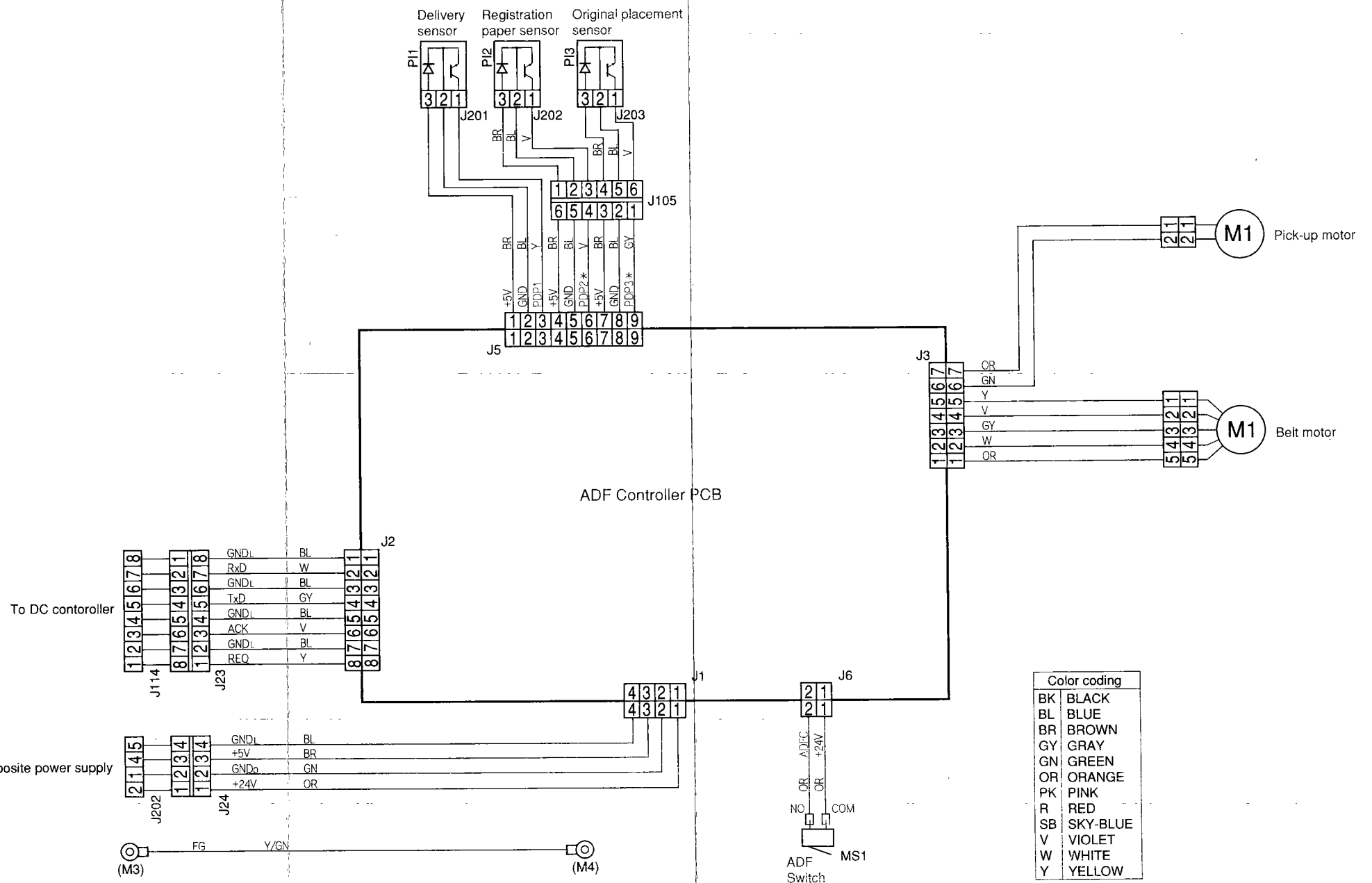
C. GENERAL CIRCUIT DIAGRAM

1.Copier



COPYRIGHT © 1995 CANON INC.

CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

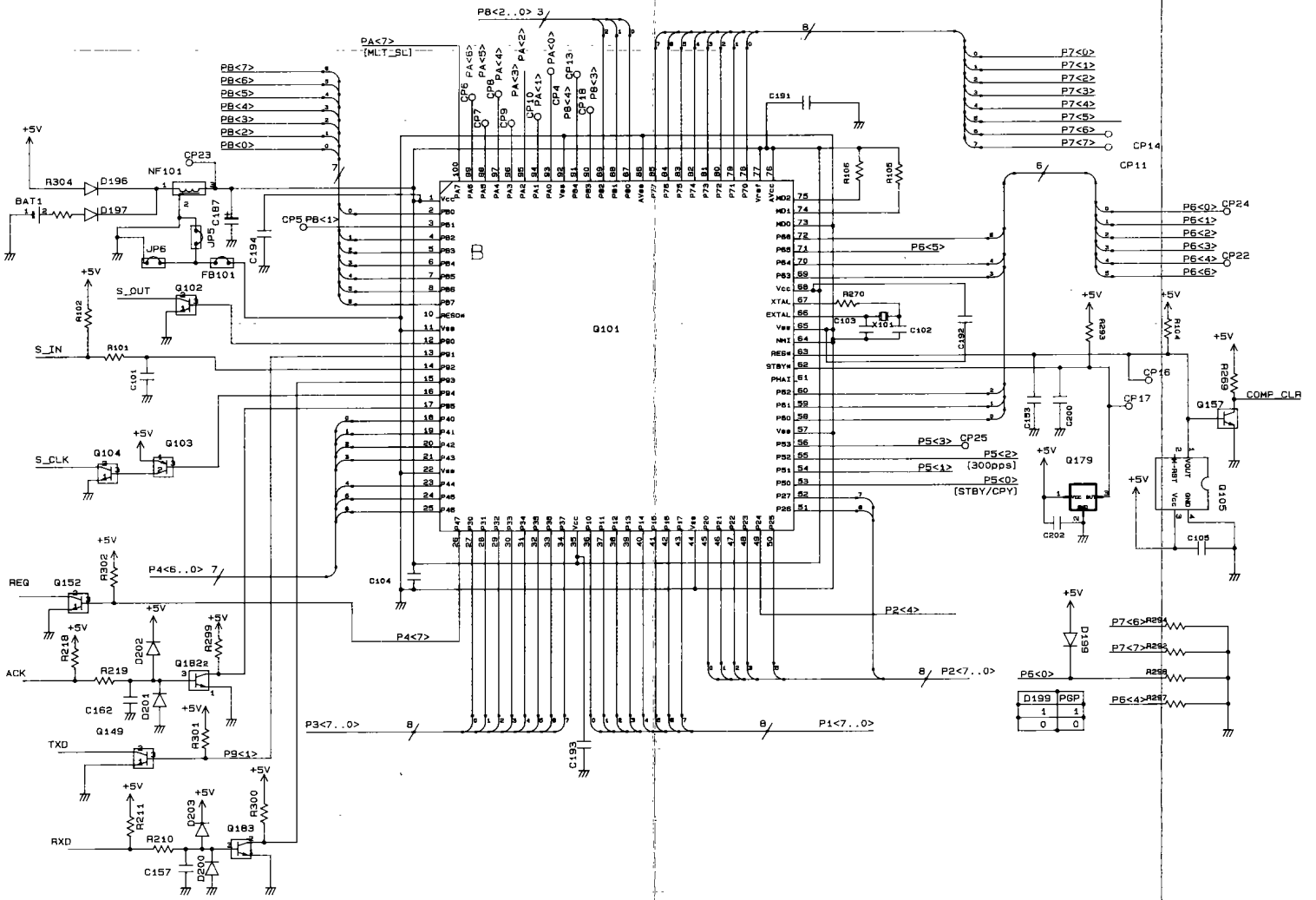


COPYRIGHT © 1995 CANON INC.

CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

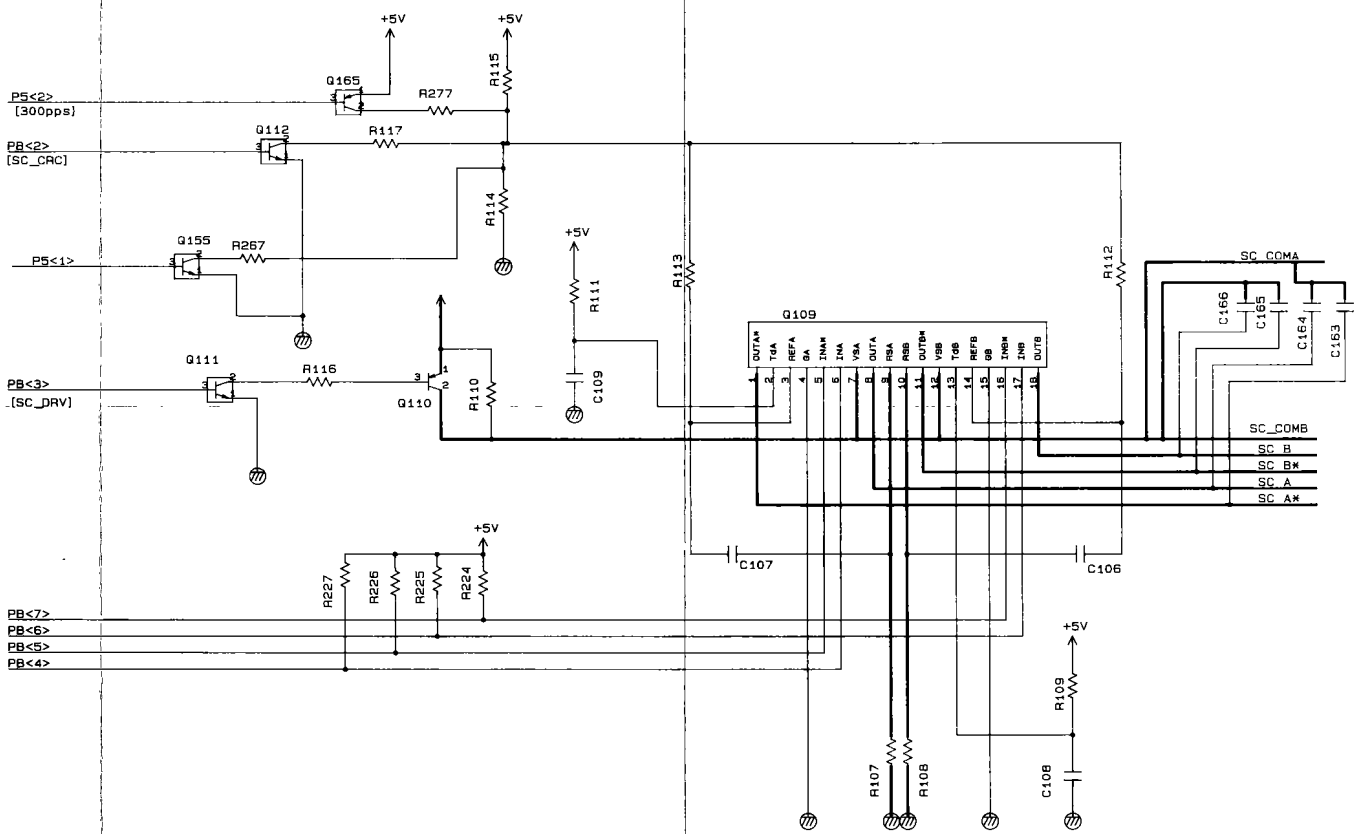
D. DC CONTROLLER CIRCUIT DIAGRAM

DC controller Circuit Diagram (1/8)



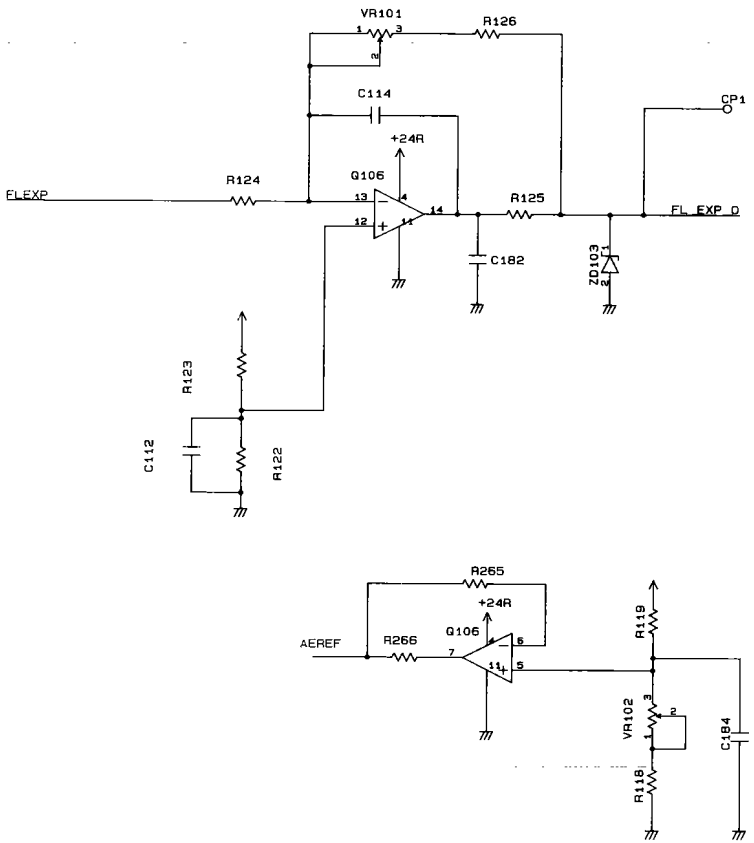
COPYRIGHT © 1995 CANON INC.

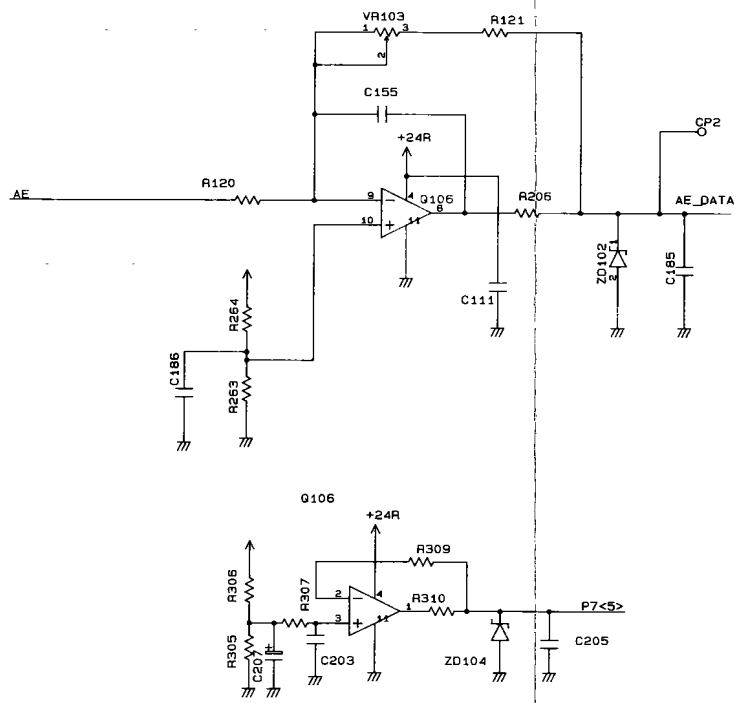
DC controller Circuit Diagram (2/8)



COPYRIGHT © 1995 CANON INC.

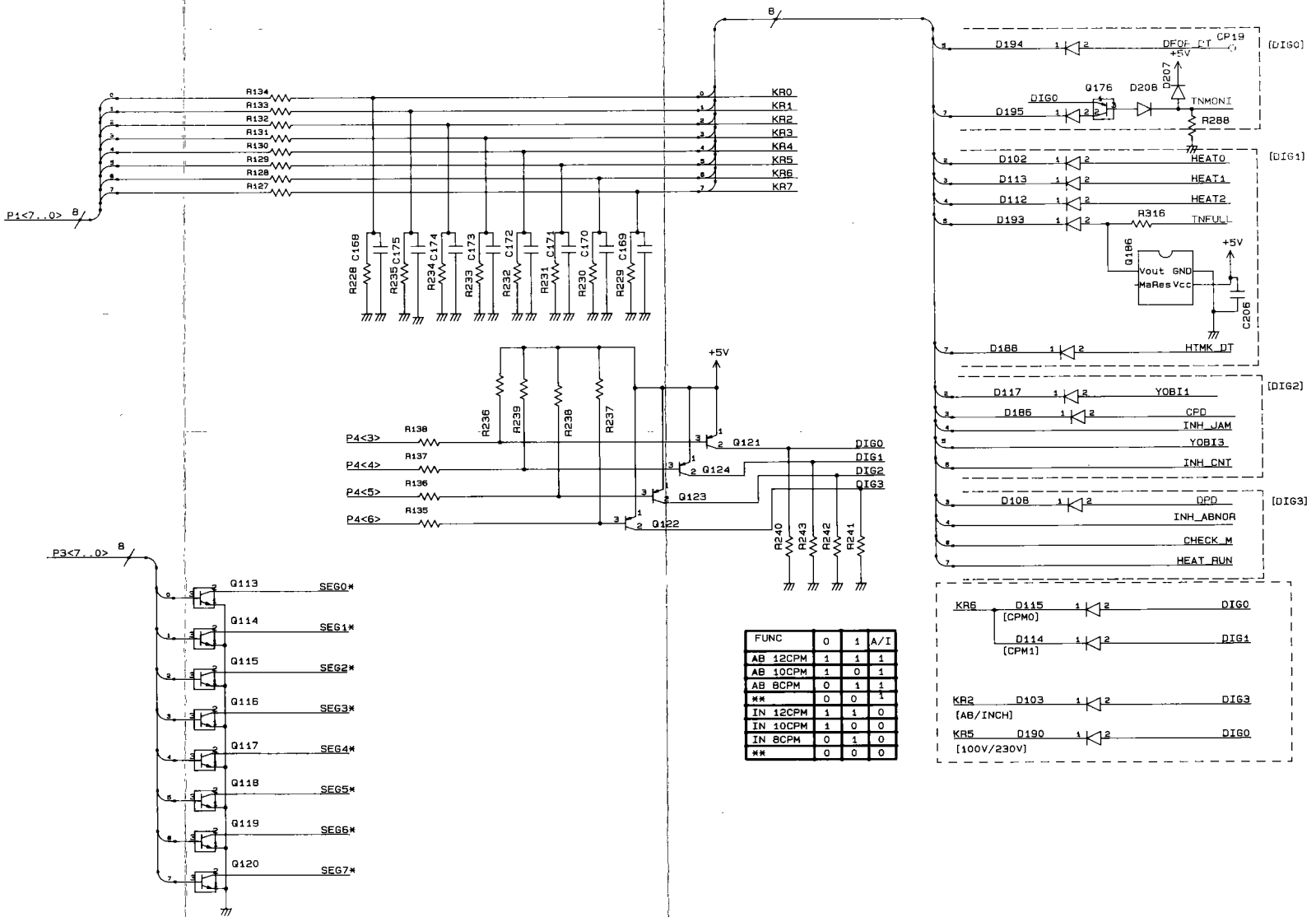
CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)





COPYRIGHT © 1995 CANON INC.

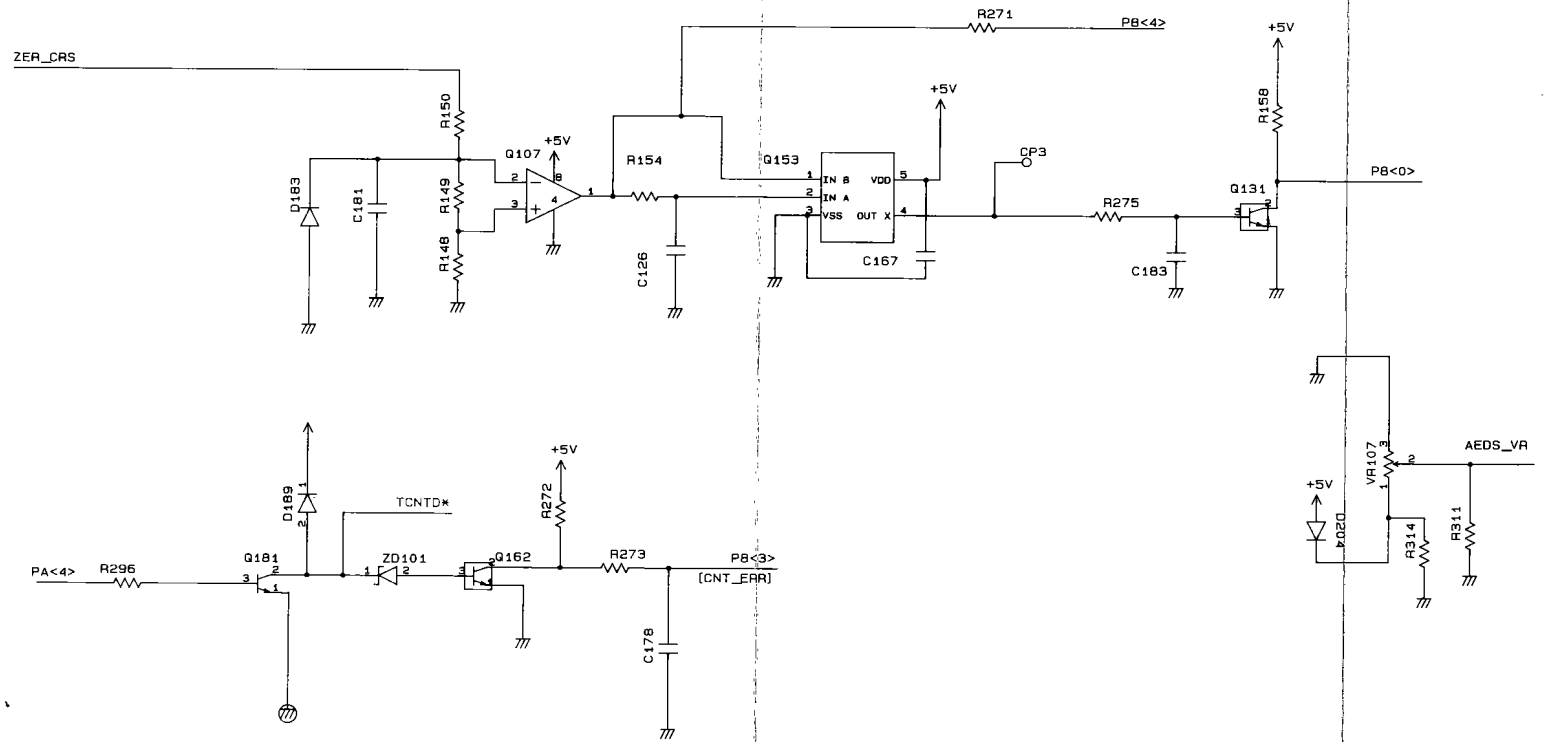
CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)



FUNC	0	1	A/I
AB 12CPM	1	1	1
AB 10CPM	1	0	1
AB 8CPM	0	1	1
**	0	0	1
IN 12CPM	1	1	0
IN 10CPM	1	0	0
IN 8CPM	0	1	0
**	0	0	0

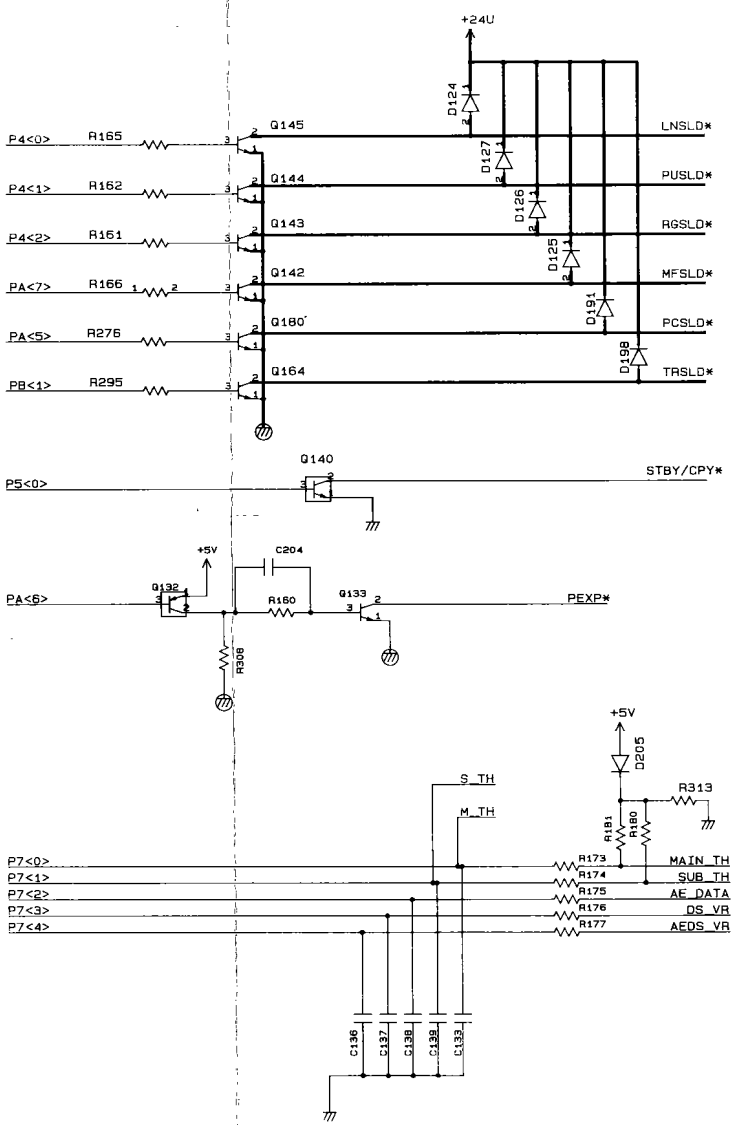
COPYRIGHT © 1995 CANON INC.

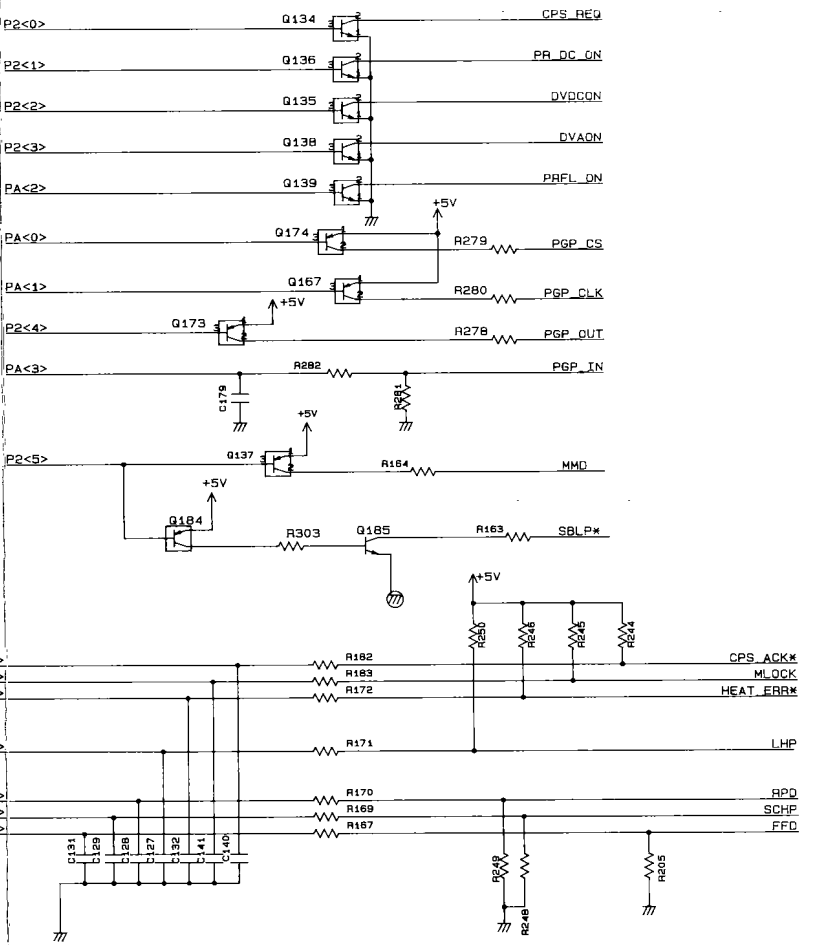
CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)



COPYRIGHT © 1995 CANON INC.

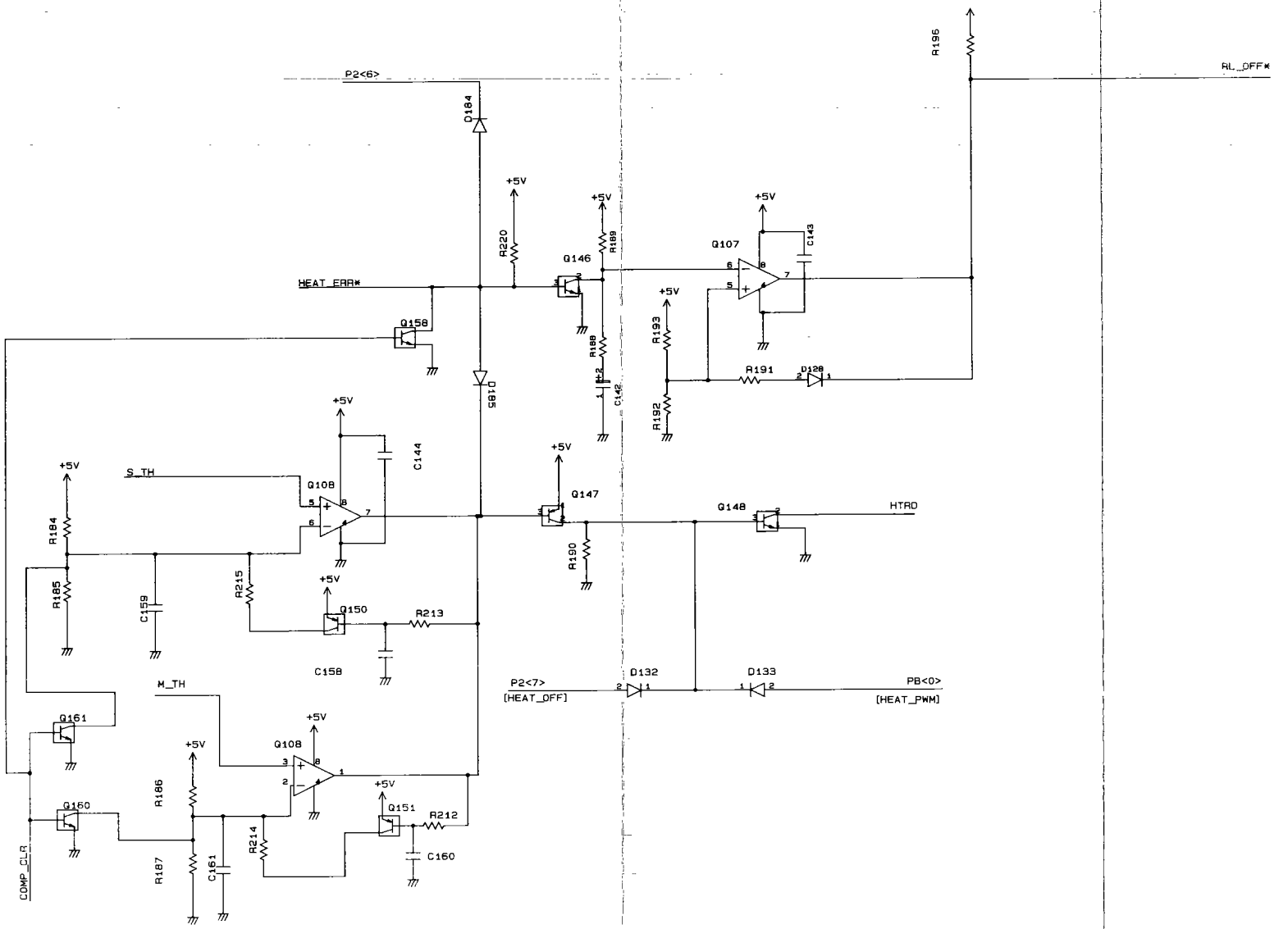
CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)





COPYRIGHT © 1995 CANON INC.

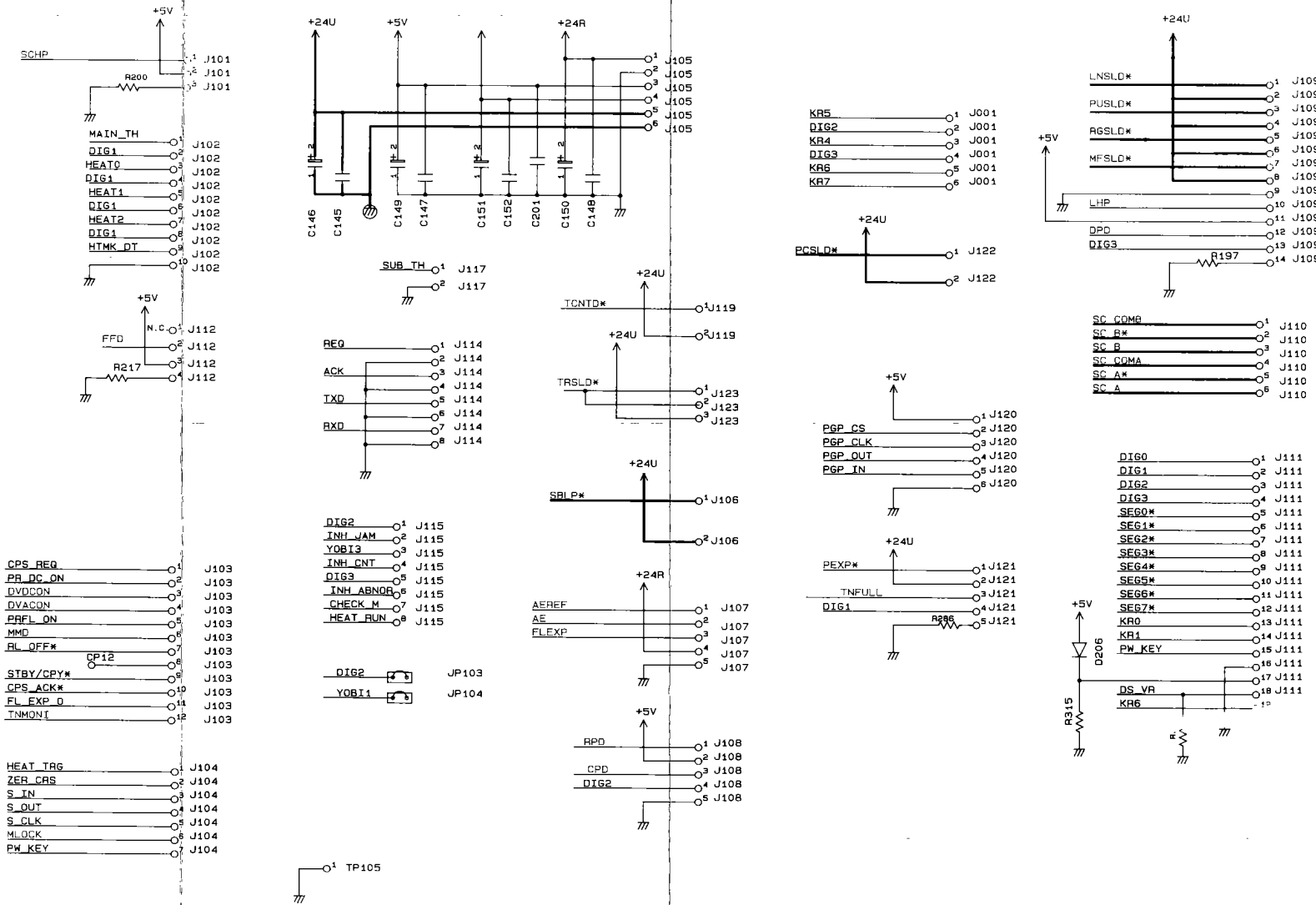
CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)



COPYRIGHT © 1995 CANON INC.

CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

DC controller Circuit Diagram (8/8)

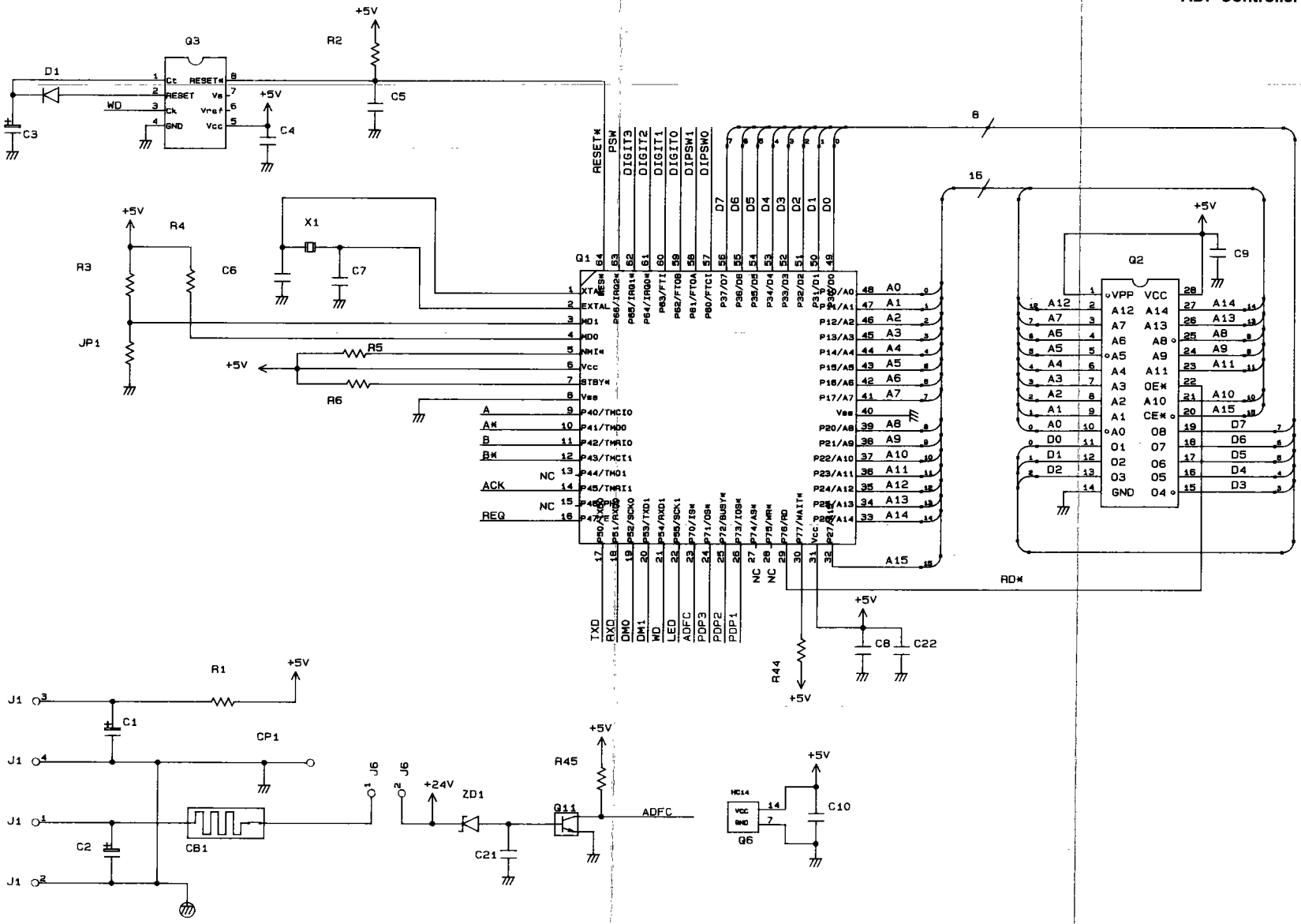


COPYRIGHT © 1995 CANON INC.

CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

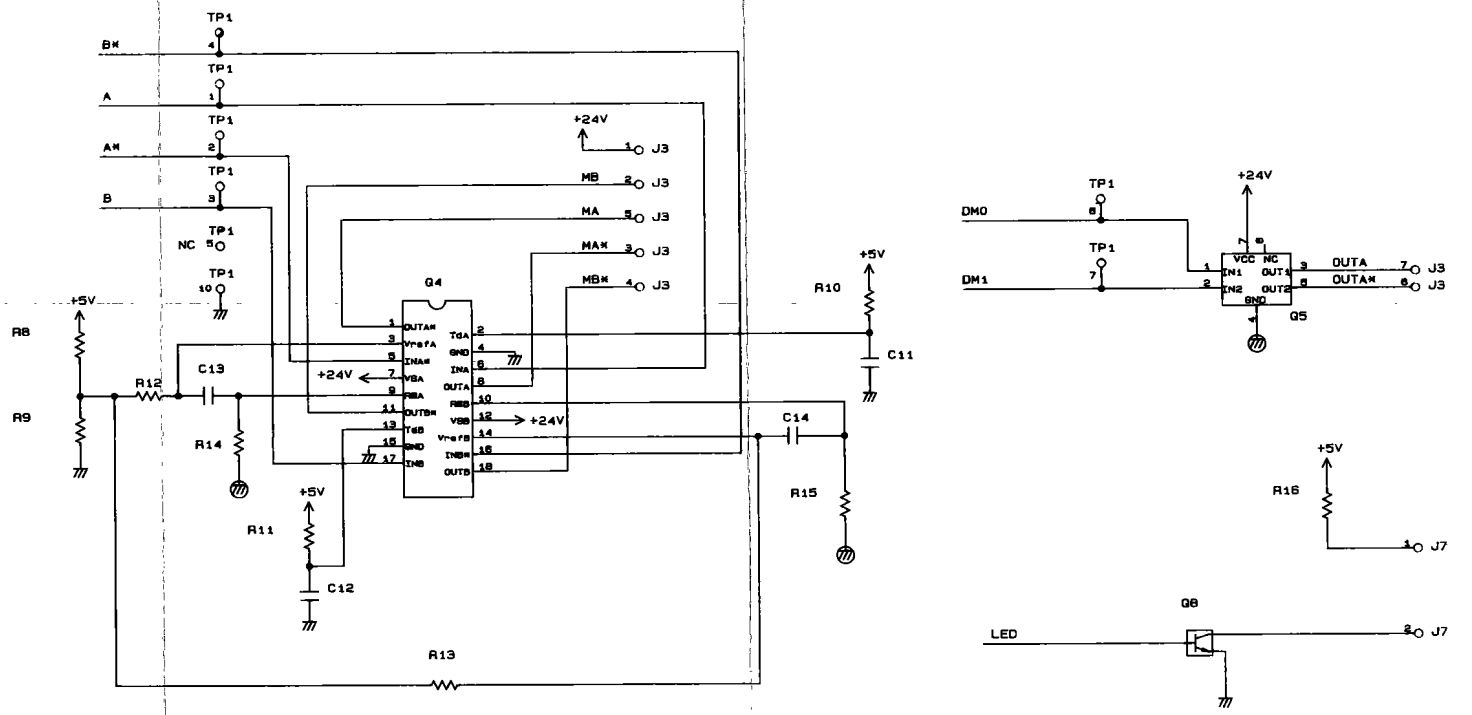
E. ADF CONTROLLER CIRCUIT DIAGRAM

ADF Controller Circuit Diagram (1/3)



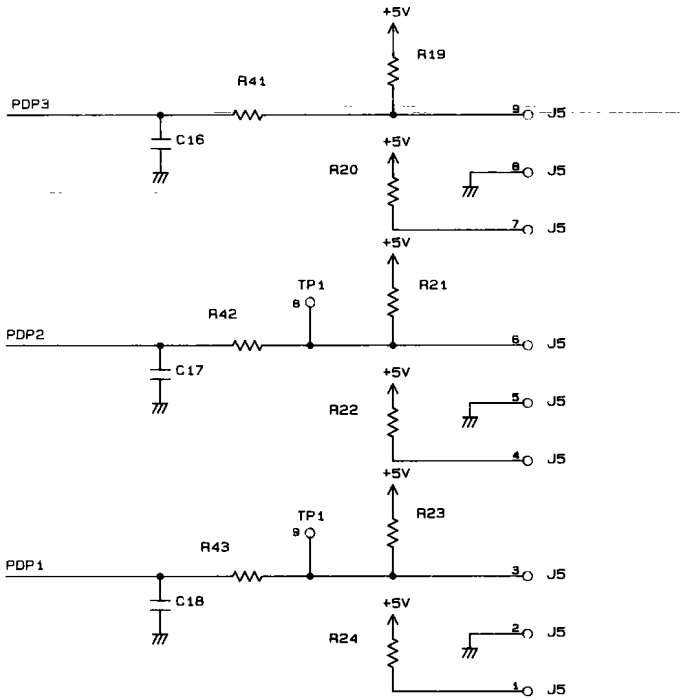
COPYRIGHT © 1995 CANON INC.

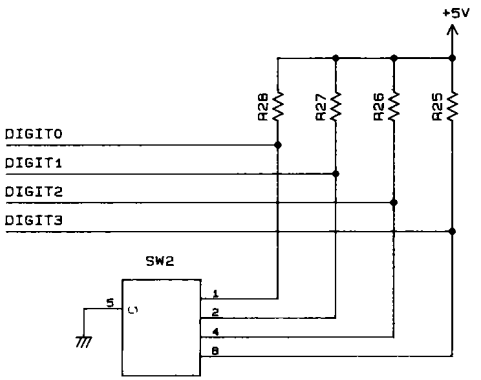
CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

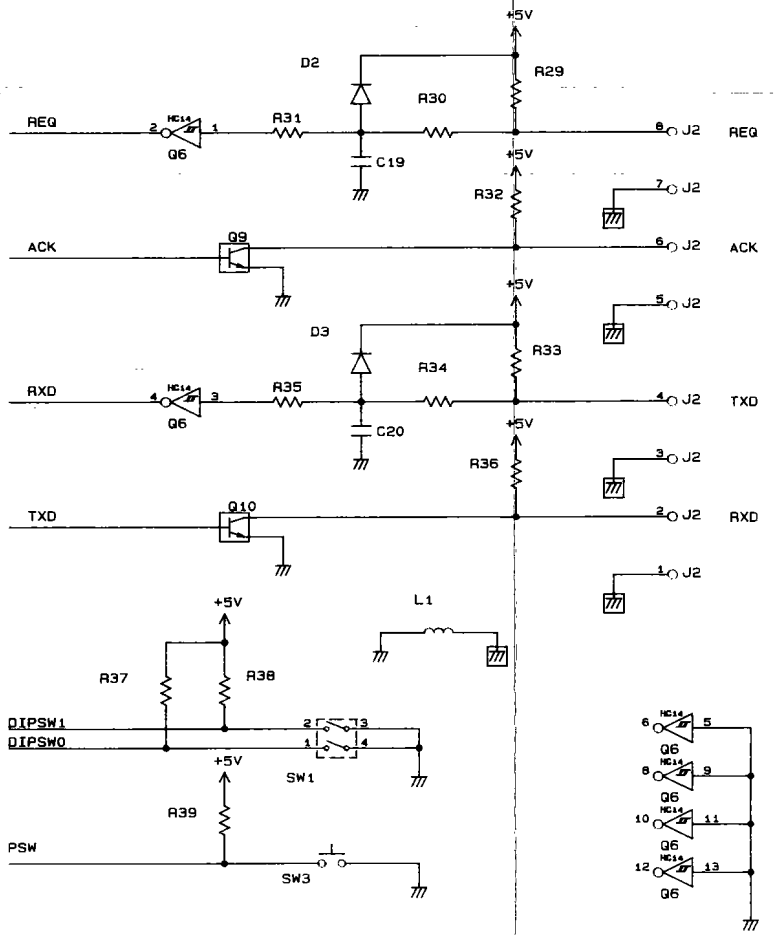


COPYRIGHT © 1995 CANON INC.

CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)





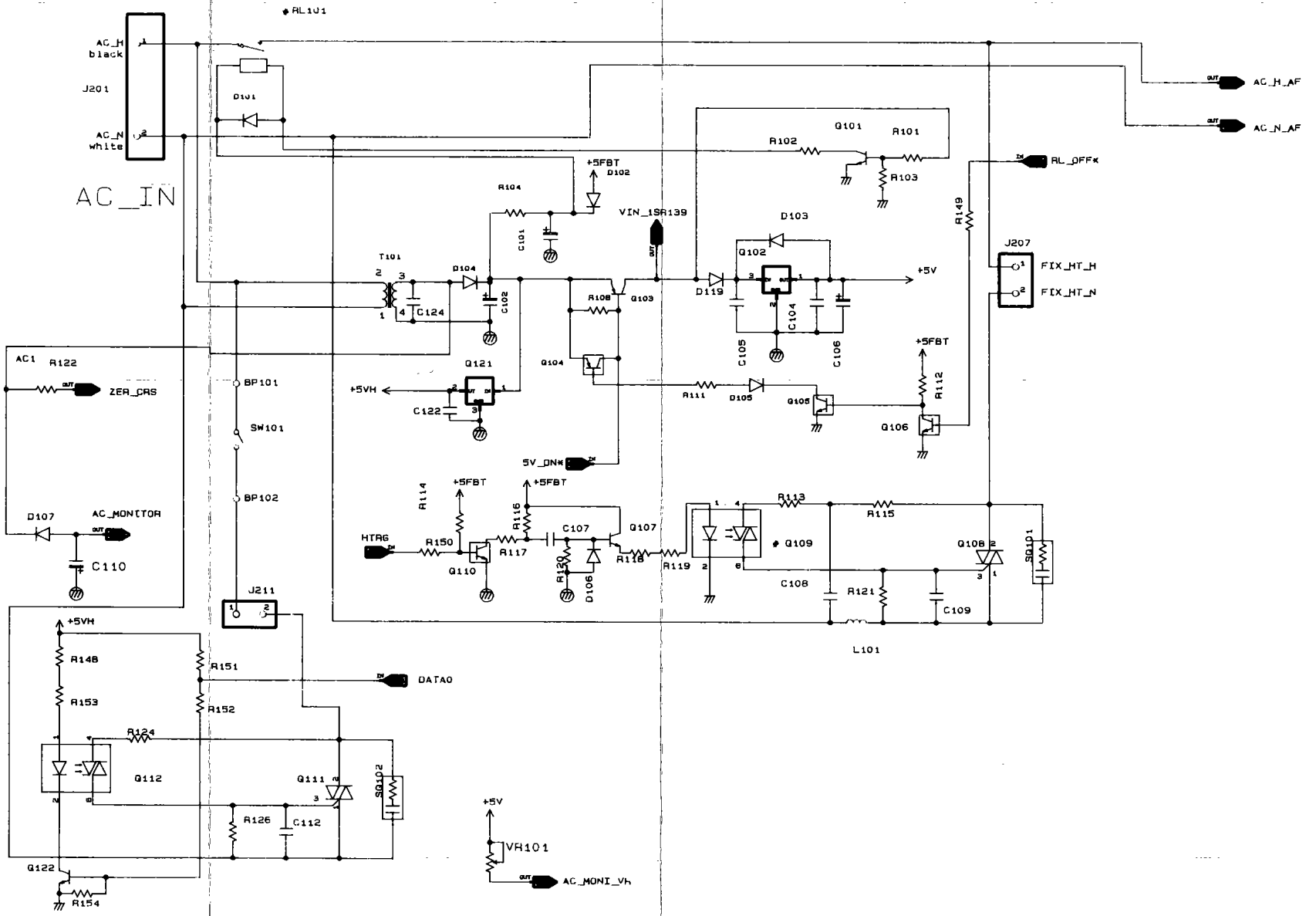


COPYRIGHT © 1995 CANON INC.

CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

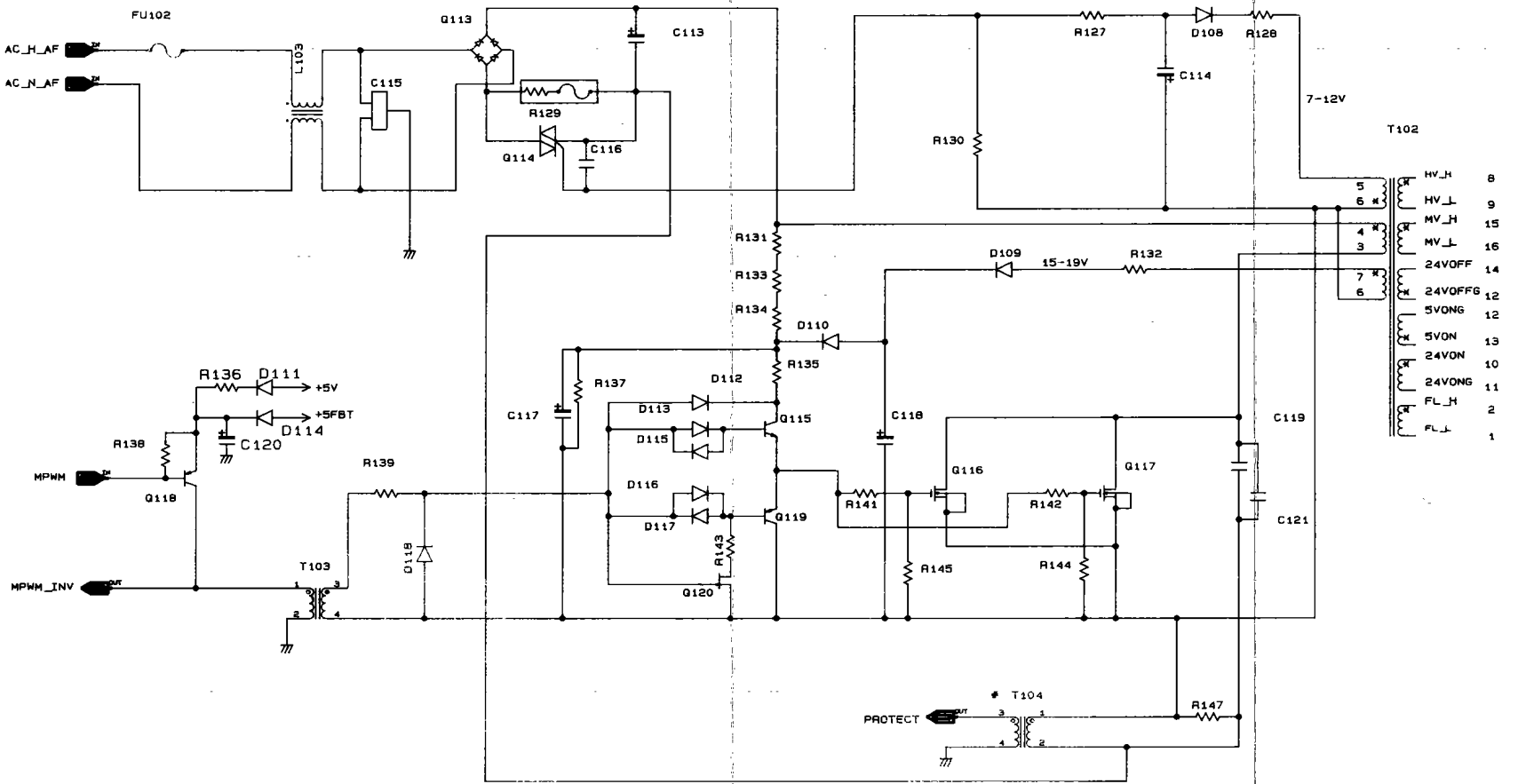
F. COMPOSITE POWER SUPPLY CIRCUIT DIAGRAM

Composite Power Supply Circuit Diagram (1/6)



COPYRIGHT © 1995 CANON INC.

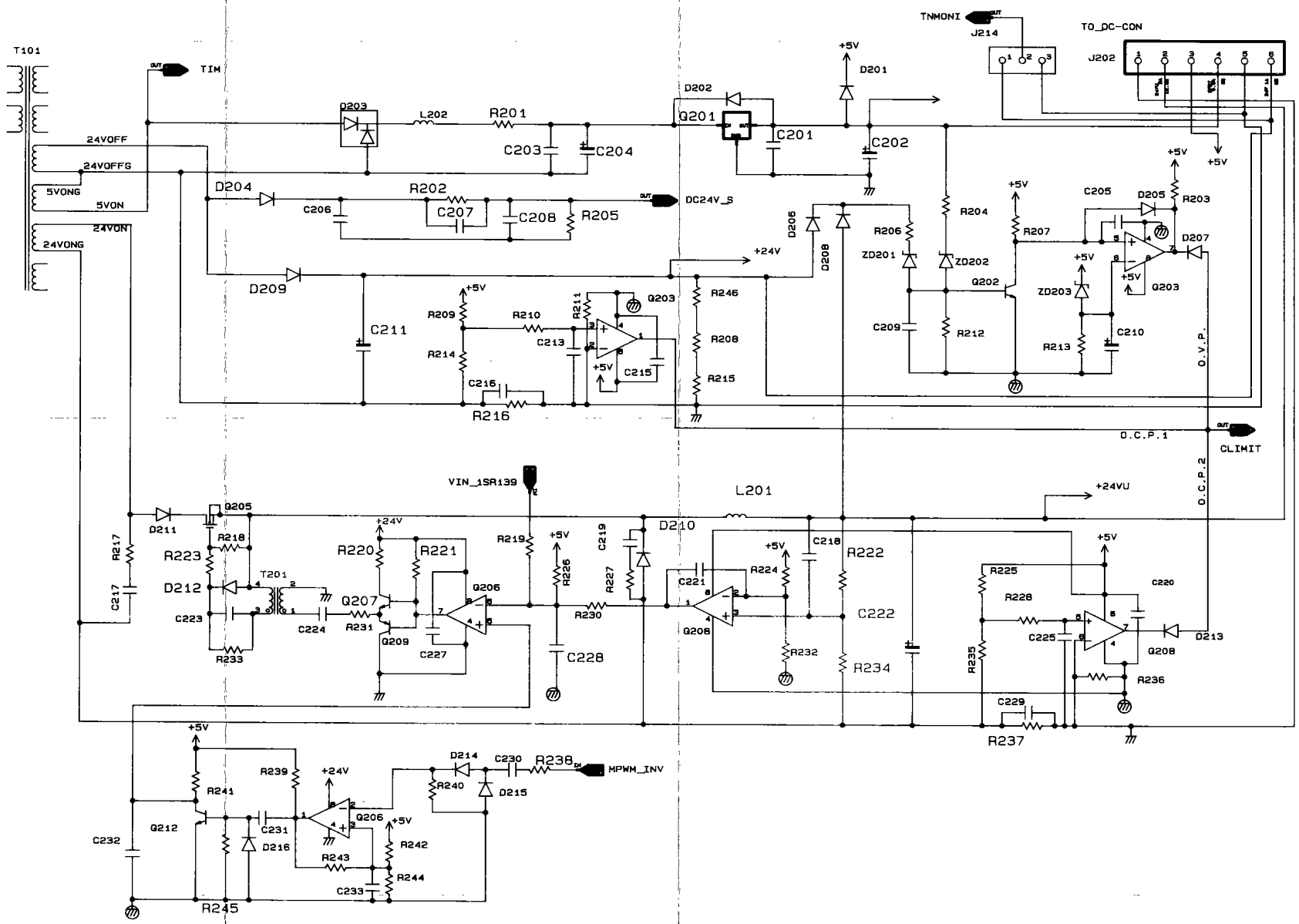
CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)



COPYRIGHT © 1995 CANON INC.

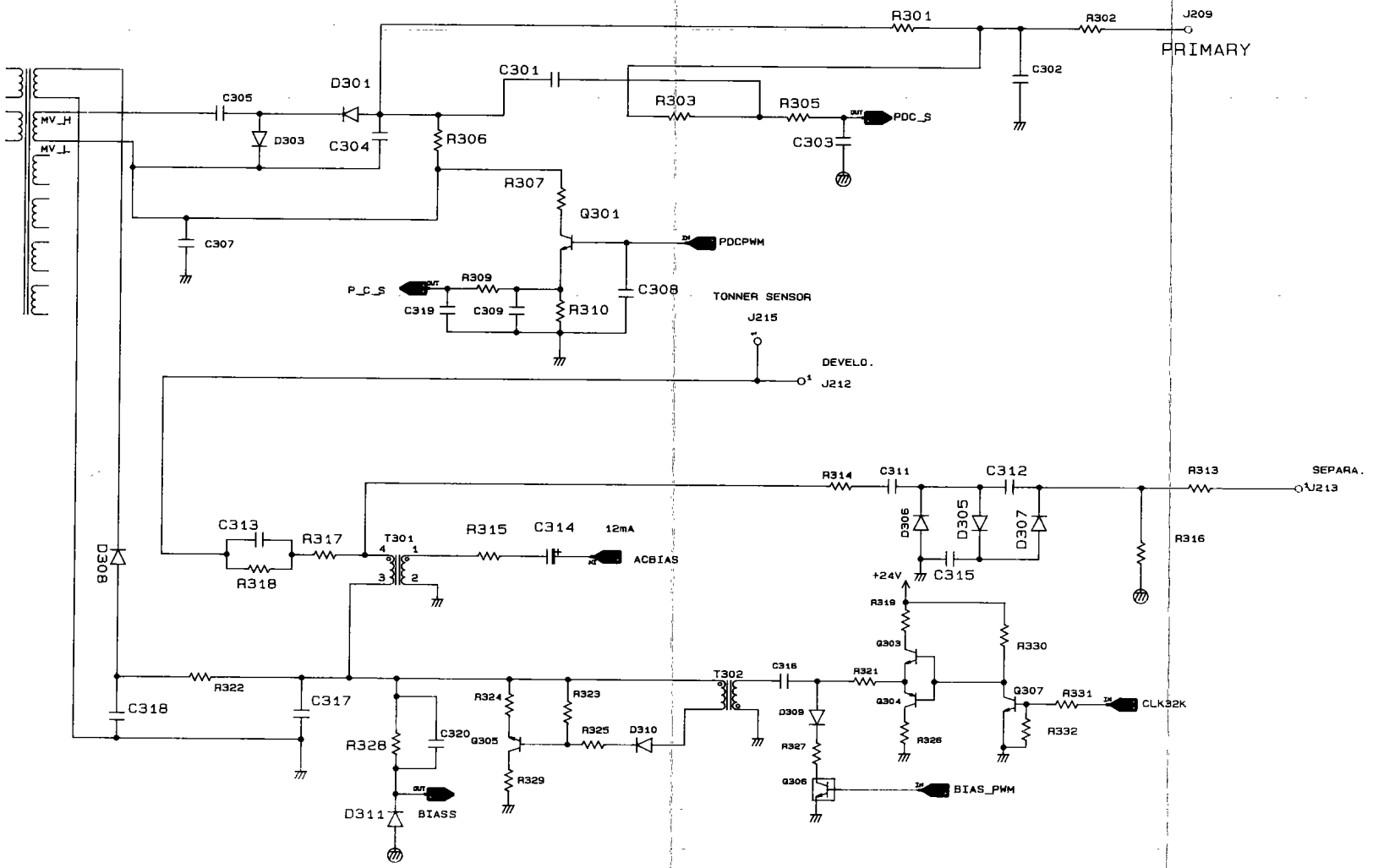
CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

Composite Power Supply Circuit Diagram (3/6)



COPYRIGHT © 1995 CANON INC.

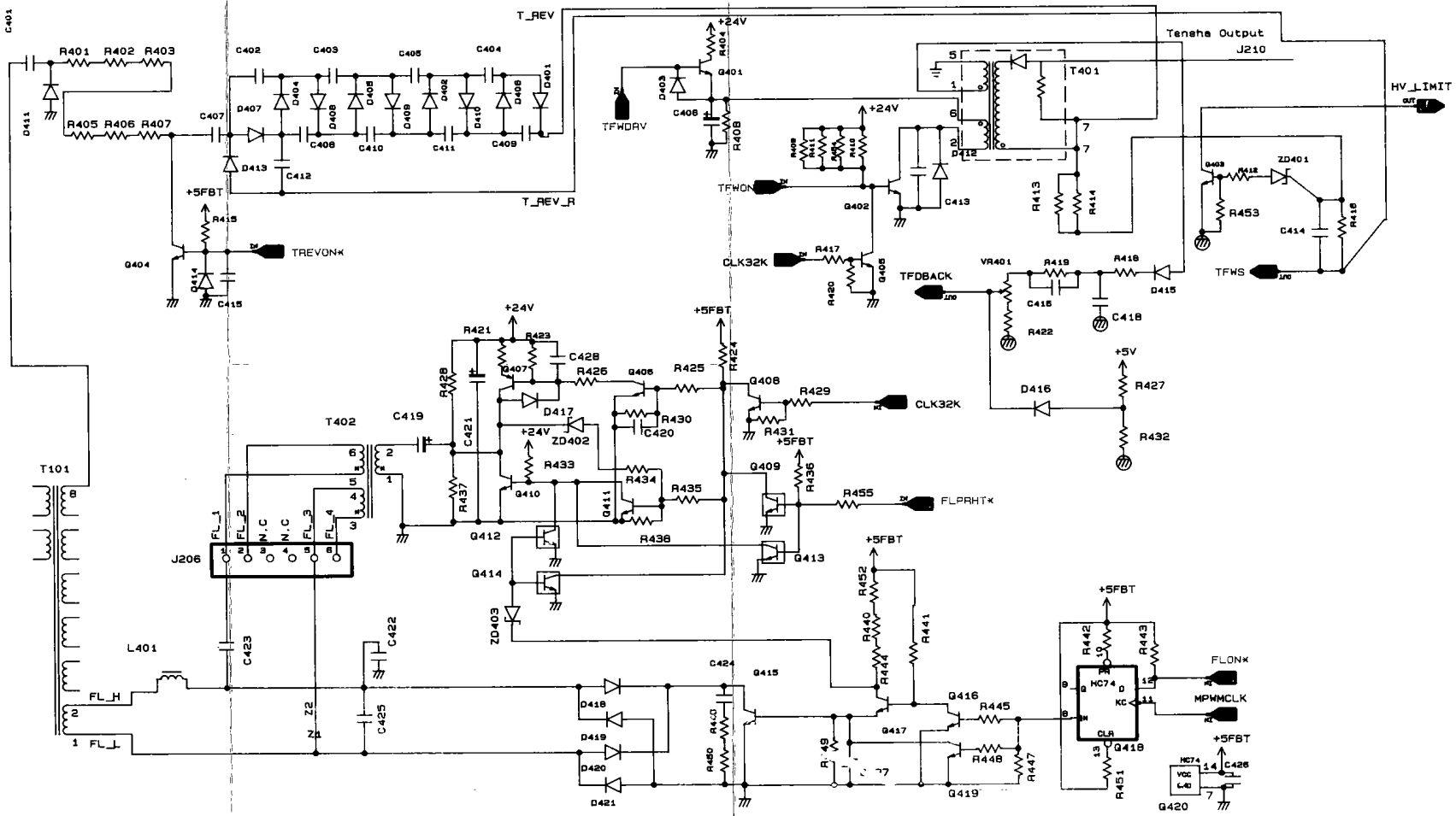
CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)



COPYRIGHT © 1995 CANON INC.

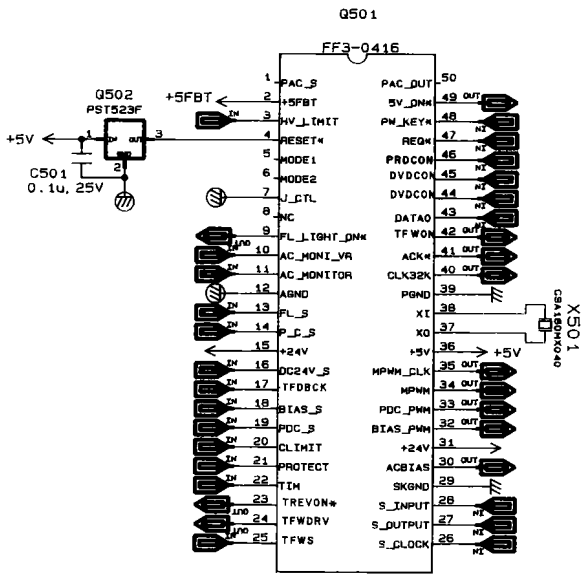
CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

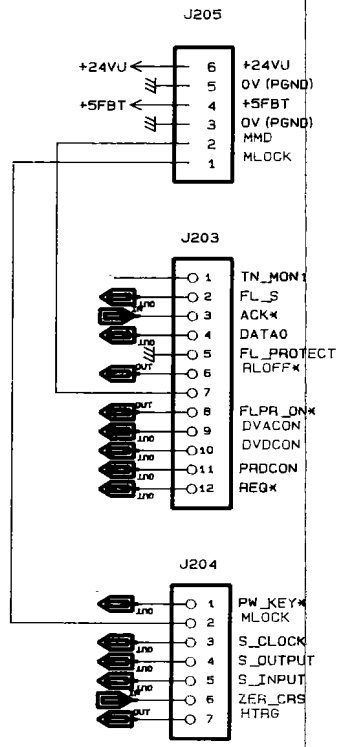
Composite Power Supply Circuit Diagram (5/6)



COPYRIGHT © 1995 CANON INC.

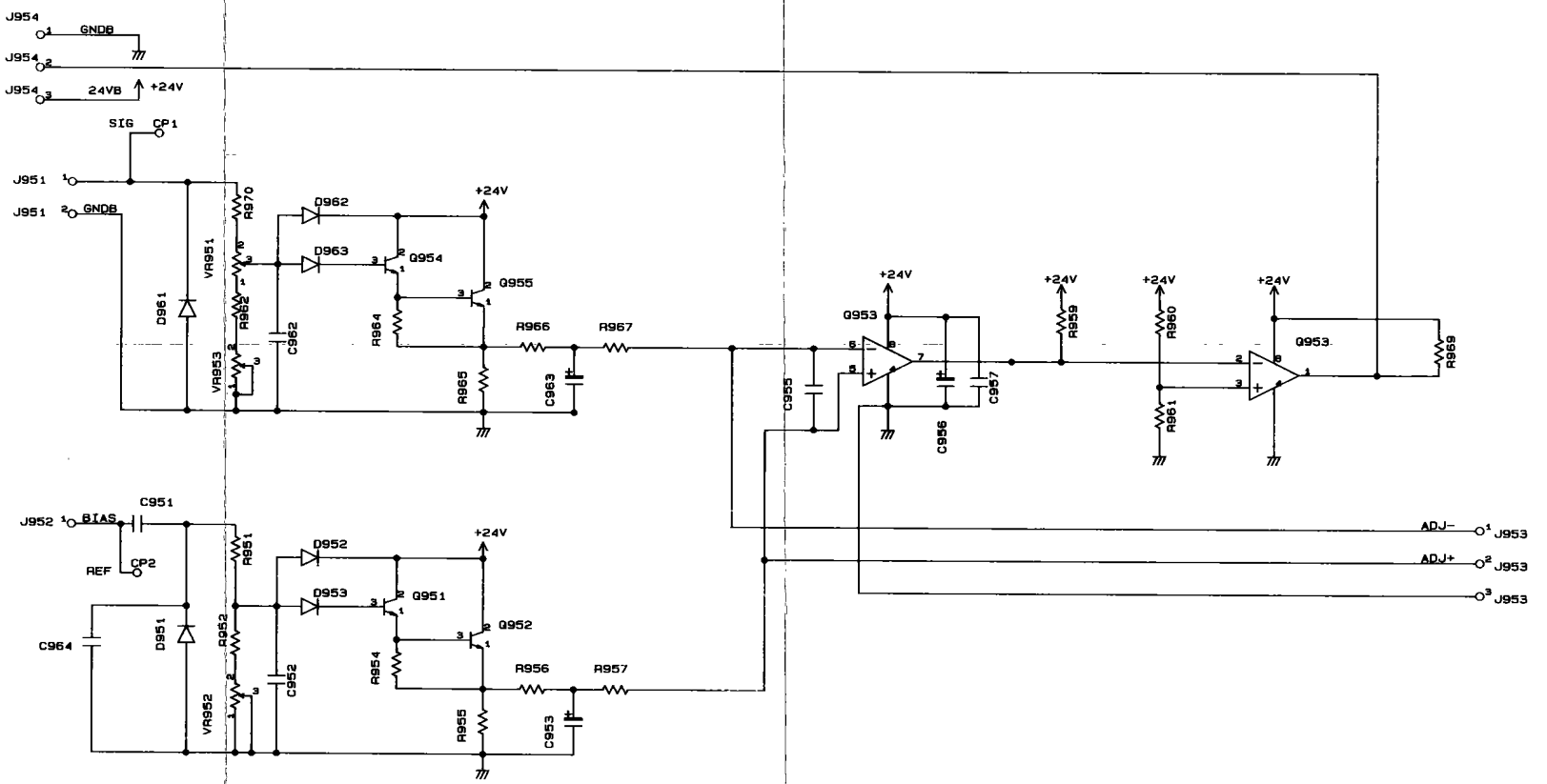
CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)





COPYRIGHT © 1995 CANON INC.

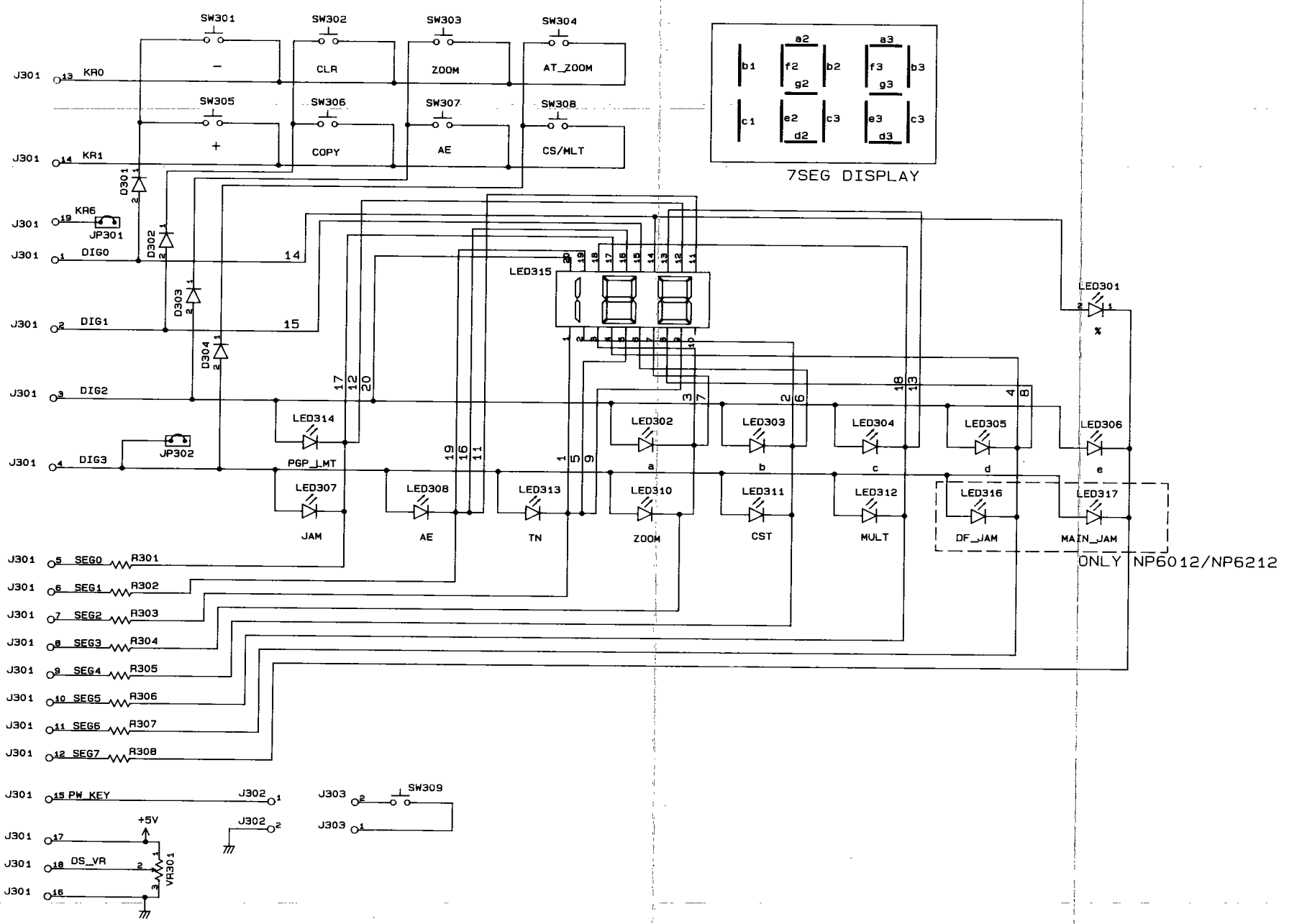
G. TONER LEVEL DETECTION CIRCUIT DIAGRAM



COPYRIGHT © 1995 CANON INC.

CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

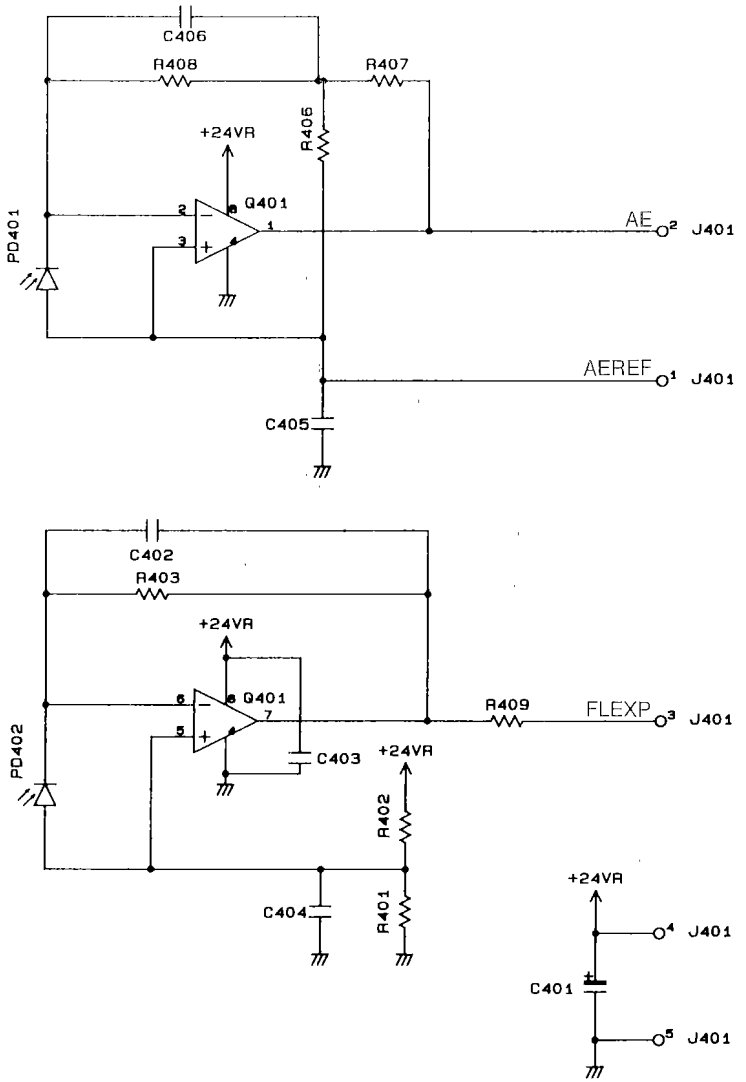
H. CONTROL PANEL CIRCUIT DIAGRAM



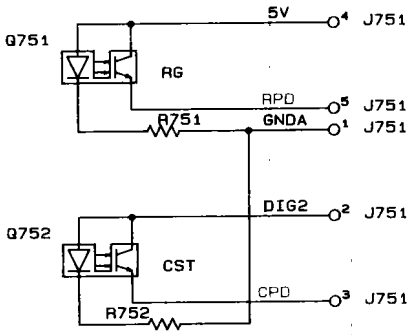
COPYRIGHT © 1995 CANON INC.

CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

I. INTENSITY/AE SENSOR CIRCUIT DIARGAM

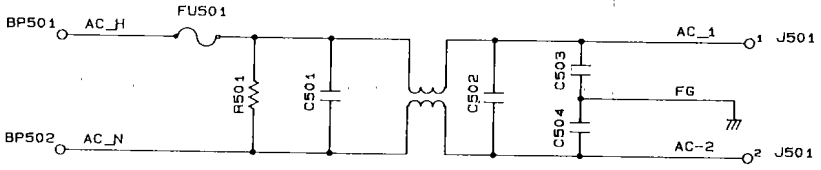


J. SENSOR CIRCUIT DIAGRAM



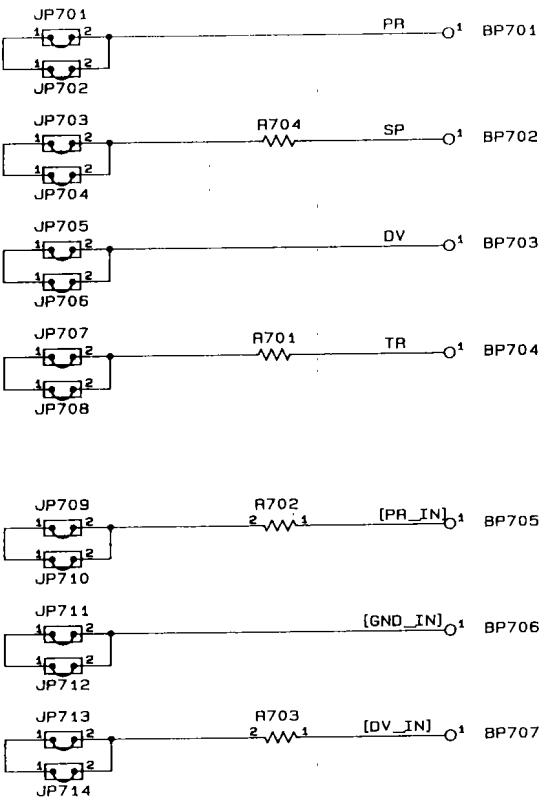
COPYRIGHT © 1995 CANON INC.
CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

K. NOISE FILTER CIRCUIT DIAGRAM



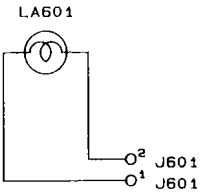
COPYRIGHT © 1995 CANON INC.

L. HIGH VOLTAGE CONTACT CIRCUIT DIAGRAM



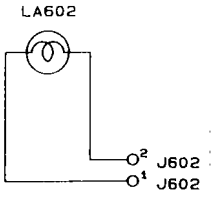
COPYRIGHT © 1995 CANON INC.
CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

M. BLANK EXPOSURE (front) CIRCUIT DIAGRAM



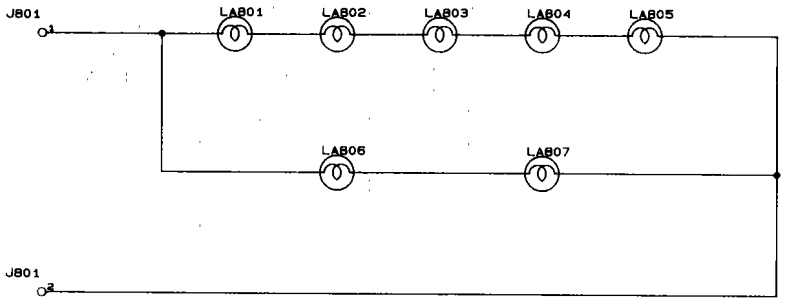
COPYRIGHT © 1995 CANON INC.

N. BLANK EXPOSURE (rear) CIRCUIT DIAGRAM



COPYRIGHT © 1995 CANON INC.
CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

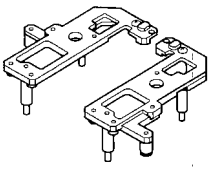
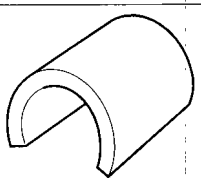
O. PRE-EXPOSURE CIRCUIT DIAGRAM



COPYRIGHT © 1995 CANON INC.

P. SPECIAL TOOLS

You will need the following special tool(s) in addition to the standard tools set when servicing the machine.

No.	Tool	Tool No.	Shape	Rank*	Remarks
1	Mirror positioning tool (pair for front and rear)	FY9-3009-020		B	For adjusting the distance between the No. 1 and No. 2 mirrors.
2	Wire clip	FY9-3017-000		B	For fixing the scanner wire in place while adjusting its tension.

COPYRIGHT © 1995 CANON INC.
CANON NP6012 / NP6012F / NP6212 REV.1 SEPT. 1995 PRINTED IN JAPAN (IMPRIMÉ AU JAPON)

Q. SOLVENTS/OILS

No.	Name	Uses	Composition	Remarks
1	Alcohol	Cleaning: e.g., glass, plastic, rubber parts; external covers	Hydrocarbon (fluorine family) Alcohol Surface active agent	• Do not bring near fire. • Procure locally. • Isopropyl alcohol may be substituted.
2	Solvent	Cleaning: e.g., metal; oil or toner dirt	Hydrocarbon (fluorine/chlorine family) Alcohol	• Do not bring near fire. • Procure locally.
3	Lubricating oil	Lubricating spring clutch	Mineral oil (paraffin family)	• CK-0451 (100cc)
4	Lubricating oil	Lubricating drive and friction parts, scanner rail	Silicone oil	• CK-0551 (20g)

COPYRIGHT © 1995 CANON INC.

NP6012/NP6012F/NP6212

PARTS CATALOG

REVISION 1 OCT. 1995

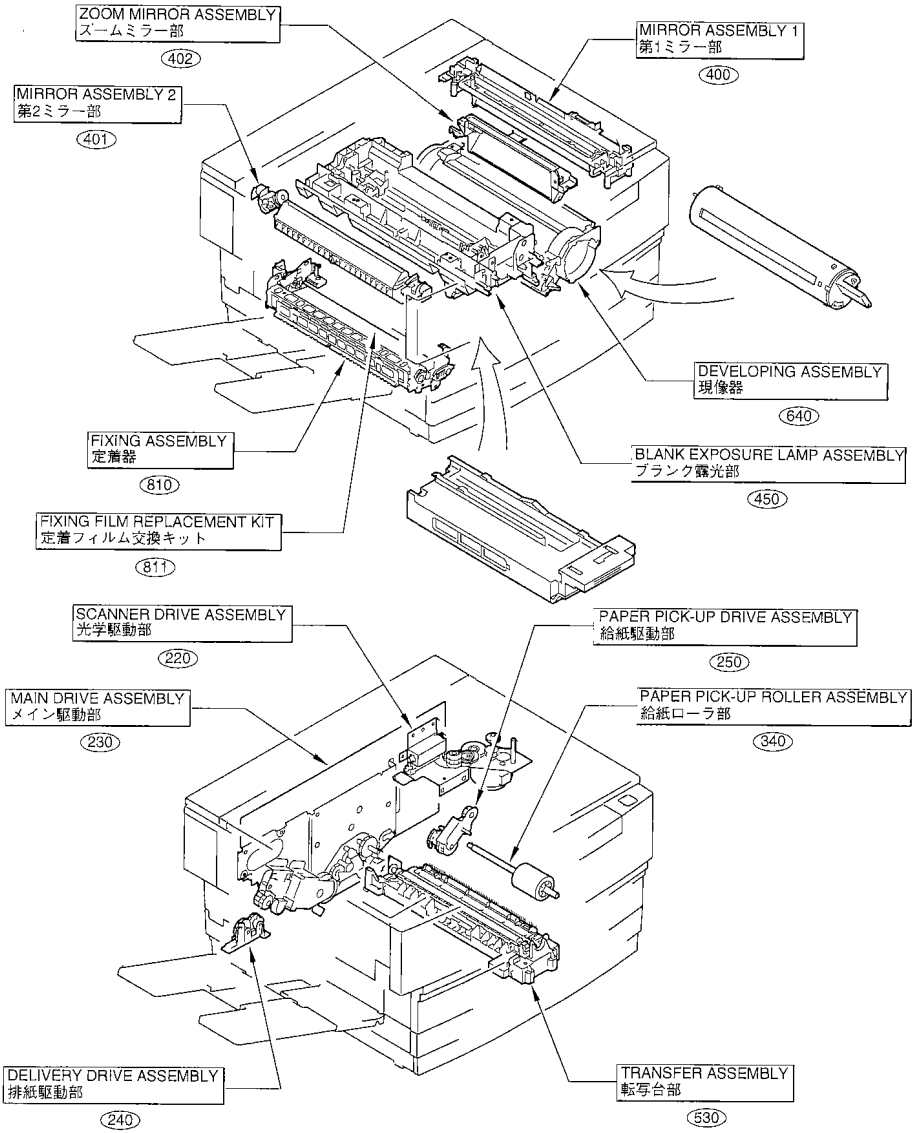
Canon

FY8-31C9-010

COPYRIGHT 1995 CANON INC.

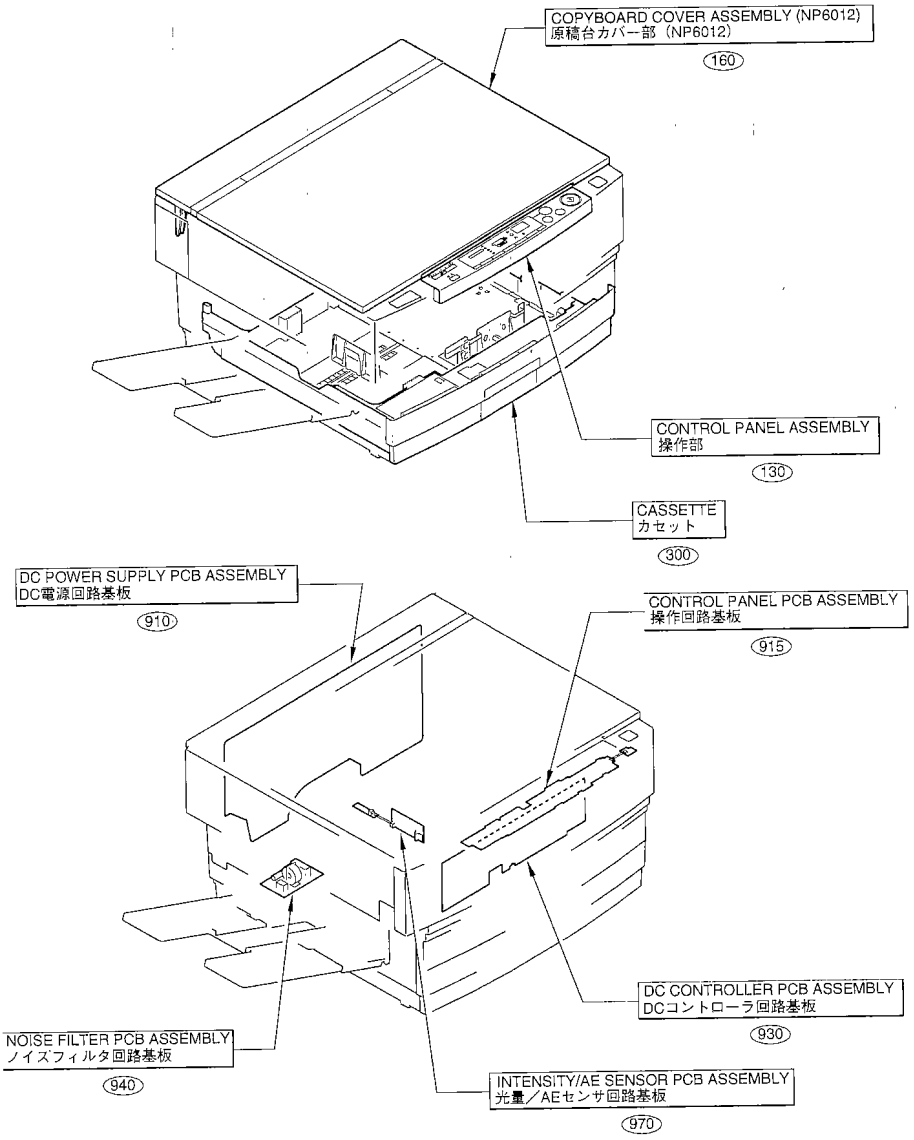
CANON NP6012/NP6012F/NP60212 REV.1 OCT. 1995 PRINTED IN JAPAN

FIGURE A ASSEMBLY LOCATION DIAGRAM(1/3)
主要部品配置図(1/3)



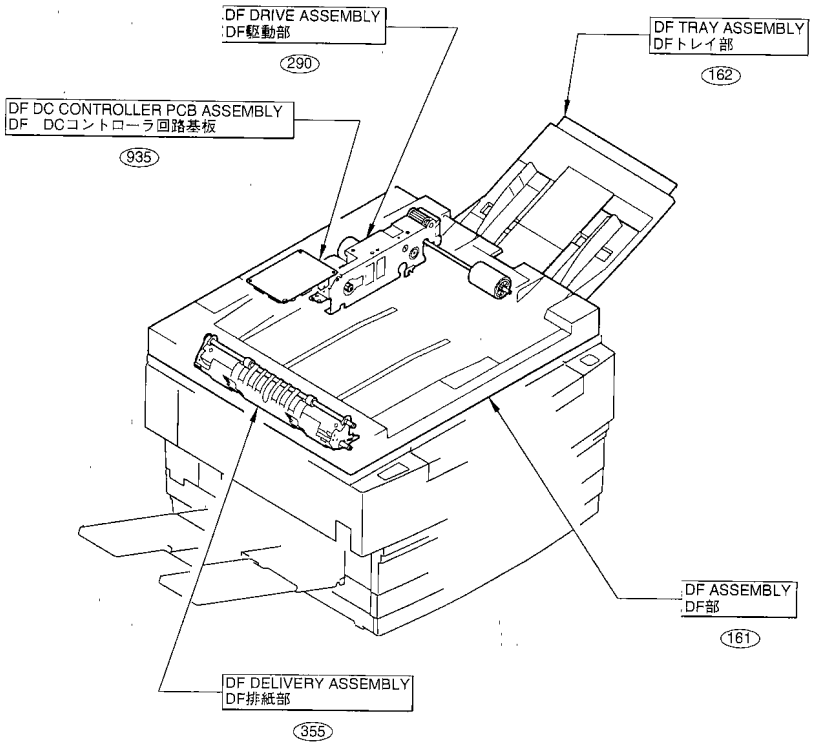
COPYRIGHT © 1995 CANON INC.
CANON NP6012/6012F/6212 REV.1 OCT. 1995 PRINTED IN JAPAN (IMPRIME AU JAPON)

FIGURE A ASSEMBLY LOCATION DIAGRAM(2/3)
主要部品配置図(2/3)



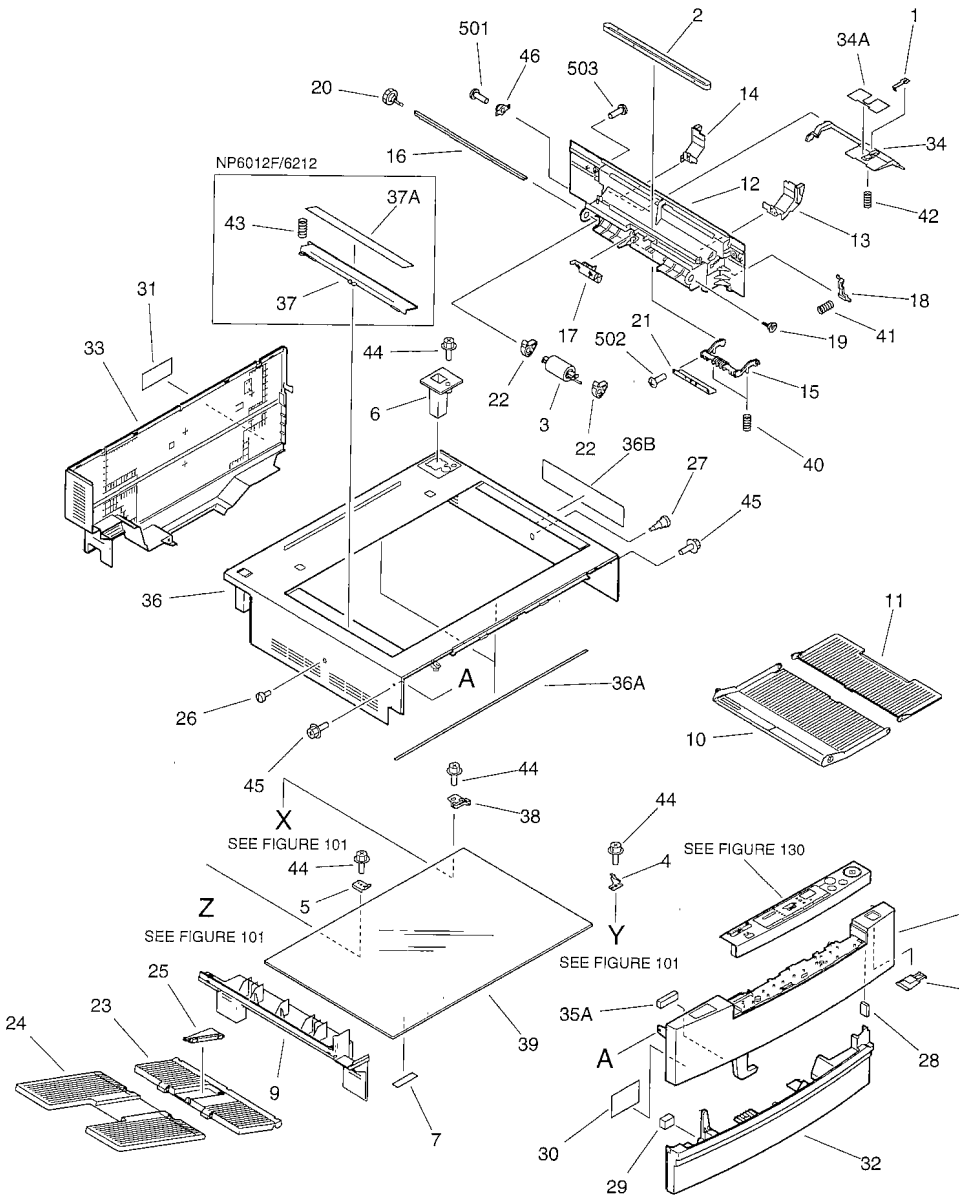
COPYRIGHT ©, 1995 CANON INC.

FIGURE A ASSEMBLY LOCATION DIAGRAM(3/3) (NP6012F/6212)
主要部品配置図(3/3) (NP6012F/6212)



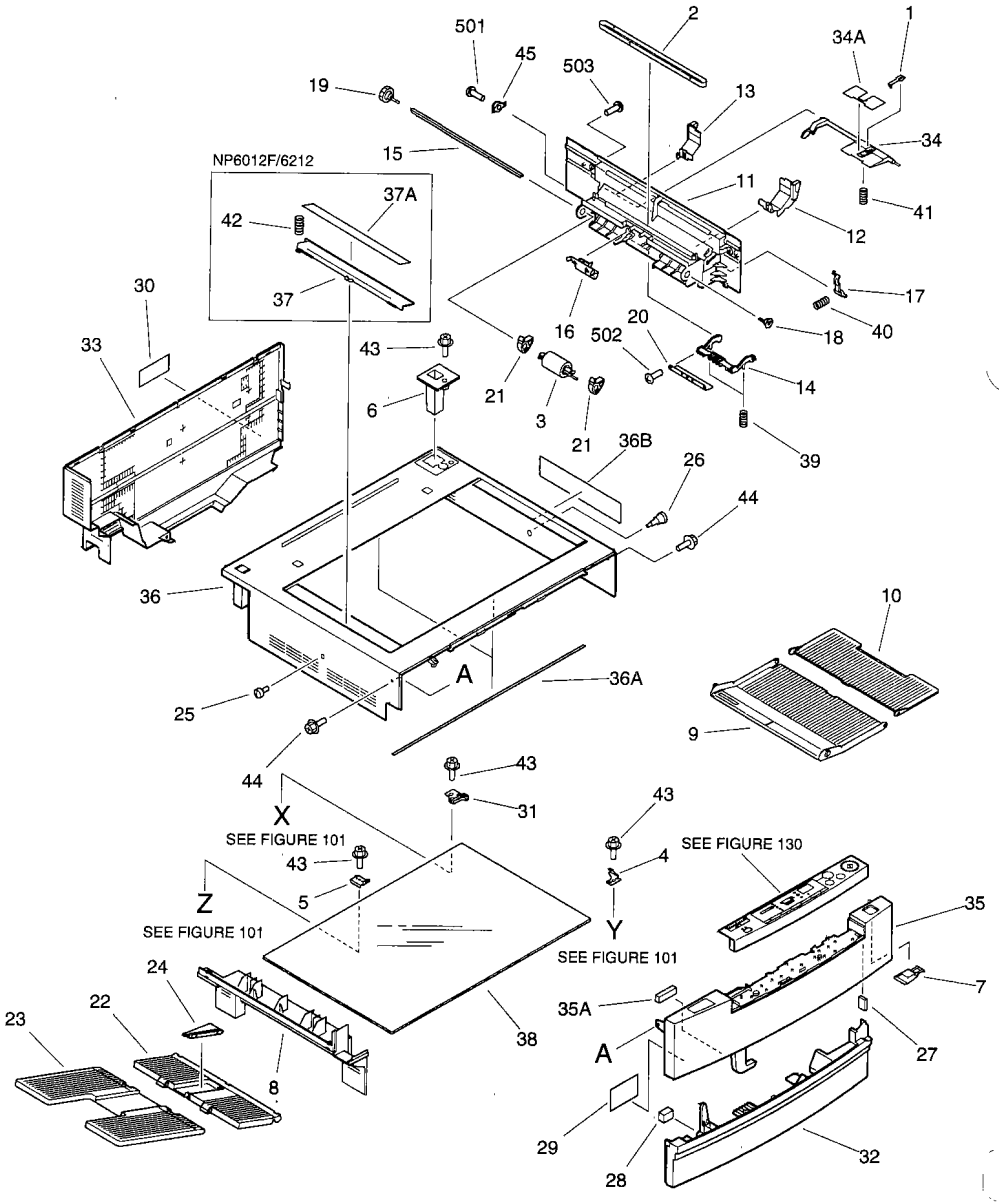
COPYRIGHT © 1995 CANON INC.
CANON NP6012/6012F/6212 REV.0 OCT. 1995 PRINTED IN JAPAN [IMPRIME AU JAPON]

FIGURE 100 EXTERNAL COVERS, PANELS, ETC.
外装カバー



COPYRIGHT © 1995 CANON INC.
CANON NP6012/6012F/6212 REV.1 OCT. 1995 PRINTED IN JAPAN [IMPRIME AU JAPON]

FIGURE 100 EXTERNAL COVERS, PANELS, ETC.
外装カバー



COPYRIGHT © 1995 CANON INC.
CANON NP6012/6012F/6212 REV. 1-1 NOV. 1996 PRINTED IN JAPAN (IMPRIME AU JAPON)

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
100 -	NPN		RF	EXTERNAL COVERS, PANELS, ETC. 外装カバー	
1	FB1 - 7283 - 000		1	SPRING, LEAF 板バネ	
2	FB1 - 7403 - 000		1	FILM, SLIDE スライド フィルム	
3	FB1 - 9766 - 000		1	ROLLER, PICK-UP キュウシ ローラ	
4	FB2 - 4606 - 000		1	RETAINER, GLASS, 1 ガラス オサエ (1)	
5	FB2 - 4607 - 000		1	RETAINER, GLASS, 2 ガラス オサエ (2)	
6	FB2 - 4785 - 000		1	SUPPORT, COPYBOARD 原稿台カバー支台	NP6012
	FB3 - 0839 - 000		1	SUPPORT, DF DF支台	NP6012F/6212
7	FB2 - 4882 - 000		1	KEY TOP, ON/OFF ON/OFF キー	
8	FB2 - 5055 - 000		1	PANEL, LEFT ヒダリ カバー	
9	FB2 - 5175 - 000		1	TRAY, PICK-UP キュウシ トレイ	
10	FB2 - 5177 - 000		1	TRAY, SUB ホジョ トレイ	
11	FB2 - 5206 - 000		1	PANEL, RIGHT ミギ カバー	
12	FB2 - 5207 - 000		1	PLATE, PAPER STOP END, FRONT サイド キセイ バン (マエ)	
13	FB2 - 5208 - 000		1	PLATE, PAPER STOP END, REAR サイド キセイ バン (ウシロ)	
14	FB2 - 5210 - 000		1	PAD, SEPARATING 分離パッド	
15	FB2 - 5211 - 000		1	SHAFT, PICK-UP キュウシ ジク	
16	FB2 - 5212 - 000		1	GUIDE, AUXILIARY 補助ガイド	
17	FB2 - 5213 - 000		1	LEVER, TRAY トレイ レバー	
18	FB2 - 5214 - 000		1	HOLDER, PICK-UP SHAFT キュウシ ジク ウケ	
19	FB2 - 5215 - 000		1	GEAR, 26T 26T ギア	
20	FB2 - 5216 - 000		1	PLATE ボウシン バン	
21	FB2 - 5217 - 000		2	ROLLER ホジョ コロ	
22	FB2 - 5425 - 000		1	TRAY, COPY, 1 ハイシ トレイ (1)	
23	FB2 - 5426 - 000		1	TRAY, COPY, 2 ハイシ トレイ (2)	
24	FB2 - 5428 - 000		1	TRAY, COPY, SUB ハイシ サブ トレイ	
25	FB2 - 5500 - 000		1	SCREW, M4X12 コテイ ビス	
26	FB2 - 5502 - 000		1	SCREW, STEPPED 段ビス	
27	FB3 - 0669 - 000		2	DAMPER, RUBBER ゴム ダンパ	
28	FB3 - 0738 - 000		1	RUBBER, SHUTTER シャッタ ゴム	

COPYRIGHT © 1995 CANON INC.

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
100 - 29	FB3 - 0809 - 000		1	LABEL, SERVICE サービス ラベル	
30	FB3 - 0813 - 000		1	PLATE, RATING 定格銘板	NP6012 220/240V
	FB3 - 0847 - 000		1	PLATE, RATING 定格銘板	NP6212 220/240V
31	FB3 - 0824 - 000		1	RETAINER, GLASS ガラス押え	NP6012
	FF9 - 1514 - 000		1	RETAINER, GLASS ガラス押え	NP6012F/6212
32	FB3 - 0850 - 000		1	PANEL, LOWER, FRONT 下前カバー	
33	FB3 - 0851 - 000		1	PANEL, REAR 後ろカバー	NP6012
	FB3 - 0827 - 000		1	PANEL, REAR 後ろカバー	NP6012F/6212
34	FF5 - 2875 - 000		1	PLATE, PICK-UP ナカ イタ	
34A	FB1 - 7295 - 000		1	SHEET, LIFTER ARM リフタ アーム シート	
35	FF5 - 3890 - 000		1	PANEL, UPPER, FRONT 上前カバー	NP6012
	FF5 - 3891 - 000		1	PANEL, UPPER, FRONT 上前カバー	NP6012F
	FF5 - 3892 - 000		1	PANEL, UPPER, FRONT 上前カバー	NP6212
35A	FB3 - 0646 - 000		1	SHEET, DAMPER ダンパ シート	
36	FF5 - 3903 - 000		1	COVER, TOP トップ カバー	NP6012
	FF5 - 3920 - 000		1	COVER, TOP トップ カバー	NP6012F/6212
36A	FB2 - 4790 - 000		2	SHEET, GLASS ガラス オサエ シート	
36B	FB2 - 5507 - 000		1	LABEL, "WARNING, RIGHT PLATE" 右側面注意ラベル	
37	FF5 - 3905 - 000		1	GUIDE, PAPER JUMP ジャンプ台	NP6012F/6212
37A	FB3 - 0817 - 000		1	LABEL, "PAPER SIZE" 用紙サイズ ラベル	NP6012F/6212
38	FN1 - 4210 - 000		1	GLASS, COPYBOARD 原稿台ガラス	NP6012
	FN5 - 4072 - 000		1	GLASS, COPYBOARD 原稿台ガラス	NP6012F/6212
39	FS5 - 2769 - 000		2	SPRING, COMPRESSION アッシュク バネ	
40	FS5 - 2770 - 000		1	SPRING, COMPRESSION アッシュク バネ	
41	FS5 - 2776 - 000		1	SPRING, COMPRESSION アッシュク バネ	
42	FS6 - 2270 - 000		1	SPRING, COMPRESSION アッシュク バネ	NP6012F/6212
43	XA9 - 0760 - 000		AR	SCREW,RS,M3X6 RS タイト ネジ	
44	XA9 - 0762 - 000		2	SCREW,RS,M3X8 RS タイト ネジ	
45	XH9 - 0084 - 000		1	DAMPER UNIT オイル ダンパ	
501	XB4 - 7200 - 609		1	SCREW,TAPPING,TRUSS HEAD,M2X6 バインド タッピン ネジ	

COPYRIGHT © 1995 CANON INC.
CANON NP6012/6012F/6212 REV. 1-1 NOV. 1996 PRINTED IN JAPAN (IMPRIME AU JAPON)

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
100 –	NPN		RF	EXTERNAL COVERS, PANELS, ETC. 外装カバー	
1	FB1 – 7283 – 000		1	SPRING, LEAF イタ バネ	
2	FB1 – 7403 – 000		1	FILM, SLIDE スライド フィルム	
3	FB1 – 9766 – 000		1	ROLLER, PICK-UP キュウシ ローラ	
4	FB2 – 4606 – 000		1	RETAINER, GLASS, 1 ガラス オサエ (1)	
5	FB2 – 4607 – 000		1	RETAINER, GLASS, 2 カラス オサエ (2)	
6	FB2 – 4785 – 000		1	SUPPORT, COPYBOARD 原稿台カバー支台	NP6012
	FB3 – 0839 – 000		1	SUPPORT, DF DF支台	NP6012F/6212
7	FB2 – 4791 – 000		4	SHEET, GLASS ガラス保護シート	
8	FB2 – 4882 – 000		1	KEY TOP, ON/OFF ON/OFF キー	
9	FB2 – 5055 – 000		1	PANEL, LEFT ヒダリ カバー	
10	FB2 – 5175 – 000		1	TRAY, PICK-UP キュウシ トレイ	
11	FB2 – 5177 – 000		1	TRAY, SUB ホジョ トレイ	
12	FB2 – 5206 – 000		1	PANEL, RIGHT ミギ カバー	
13	FB2 – 5207 – 000		1	PLATE, PAPER STOP END, FRONT サイド キセイ バン (マエ)	
14	FB2 – 5208 – 000		1	PLATE, PAPER STOP END, REAR サイド キセイ バン (ウシロ)	
15	FB2 – 5210 – 000		1	PAD, SEPARATING ブンリ パッド	
16	FB2 – 5211 – 000		1	SHAFT, PICK-UP キュウシ ジク	
17	FB2 – 5212 – 000		1	GUIDE, AUXILIARY 補助ガイド	
18	FB2 – 5213 – 000		1	LEVER, TRAY トレイ レバー	
19	FB2 – 5214 – 000		1	HOLDER, PICK-UP SHAFT キュウシ シク ウケ	
20	FB2 – 5215 – 000		1	GEAR, 26T 26T ギア	
21	FB2 – 5216 – 000		1	PLATE ボウシン バン	
22	FB2 – 5217 – 000		2	ROLLER ホジョ コロ	
23	FB2 – 5425 – 000		1	TRAY, COPY, 1 ハイシ トレイ (1)	
24	FB2 – 5426 – 000		1	TRAY, COPY, 2 ハイシ トレイ (2)	
25	FB2 – 5428 – 000		1	TRAY, COPY, SUB ハイシ サブ トレイ	
26	FB2 – 5500 – 000		1	SCREW, M4X12 コテイ ビス	
27	FB2 – 5502 – 000		1	SCREW, STEPPED 段ビス	
28	FB3 – 0669 – 000		2	DAMPER, RUBBER ゴム ダンパ	

COPYRIGHT © 1995 CANON INC.

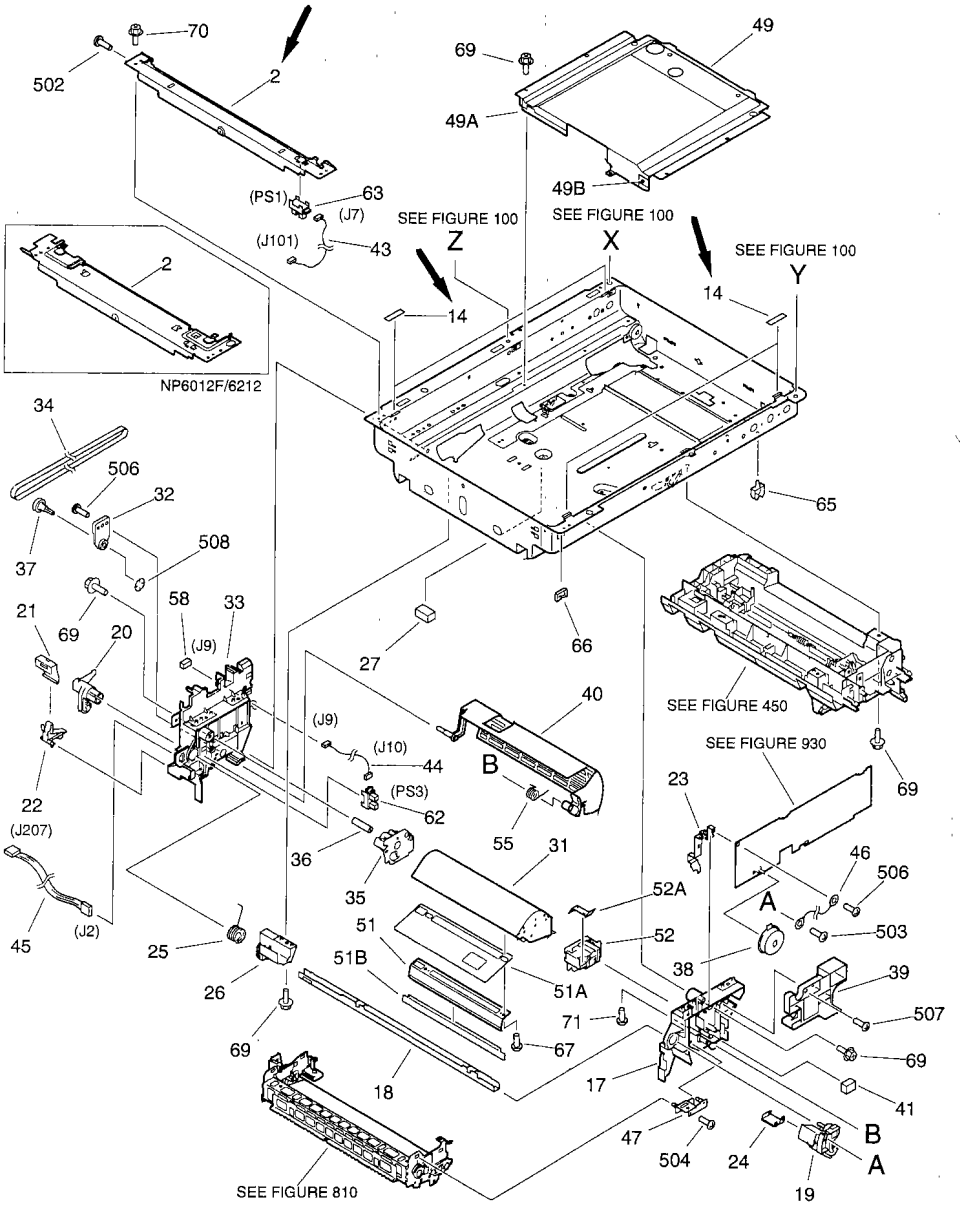
FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
100 - 29	FB3 - 0738 - 000		1	RUBBER, SHUTTER シャッタ ゴム	
30	FB3 - 0809 - 000		1	LABEL, SERVICE サービス ラベル	
31	FB3 - 0813 - 000		1	PLATE, RATING 定格銘板	NP6012 220/240V
	FB3 - 0847 - 000		1	PLATE, RATING 定格銘板	NP6212 220/240V
32	FB3 - 0850 - 000		1	PANEL, LOWER, FRONT 下前カバー	
33	FB3 - 0851 - 000		1	PANEL, REAR 後ろカバー	NP6012
	FB3 - 0827 - 000		1	PANEL, REAR 後ろカバー	NP6012F/6212
34	FF5 - 2875 - 000		1	PLATE, PICK-UP ナカ イタ	
34A	FB1 - 7295 - 000		1	SHEET, LIFTER ARM リフタ アーム シート	
35	FF5 - 3890 - 000		1	PANEL, UPPER, FRONT 上前カバー	NP6012
	FF5 - 3891 - 000		1	PANEL, UPPER, FRONT 上前カバー	NP6012F
	FF5 - 3892 - 000		1	PANEL, UPPER, FRONT 上前カバー	NP6212
35A	FB3 - 0646 - 000		1	SHEET, DAMPER タンパ シート	
36	FF5 - 3903 - 000		1	COVER, TOP トップ カバー	NP6012
	FF5 - 3920 - 000		1	COVER, TOP トップ カバー	NP6012F/6212
36A	FB2 - 4790 - 000		2	SHEET, GLASS ガラス オサエ シート	
36B	FB2 - 5507 - 000		1	LABEL, "WARNING, RIGHT PLATE" 右側面注意ラベル	
37	FF5 - 3905 - 000		1	GUIDE, PAPER JUMP ジャンプ台	NP6012F/6212
37A	FB3 - 0817 - 000		1	LABEL, "PAPER SIZE" 用紙サイズ ラベル	NP6012F/6212
38	FF9 - 1514 - 000		1	RETAINER, GLASS ガラス押え	
39	FN1 - 4210 - 000		1	GLASS, COPYBOARD 原稿台ガラス	NP6012
	FN5 - 4072 - 000		1	GLASS, COPYBOARD 原稿台ガラス	NP6012F/6212
40	FS5 - 2769 - 000		2	SPRING, COMPRESSION アッシュク バネ	
41	FS5 - 2770 - 000		1	SPRING, COMPRESSION アッシュク バネ	
42	FS5 - 2776 - 000		1	SPRING, COMPRESSION アッシュク バネ	
43	FS6 - 2270 - 000		1	SPRING, COMPRESSION アッシュク バネ	NP6012F/6212
44	XA9 - 0760 - 000		AR	SCREW, RS, M3X6 RS タイト ネジ	
45	XA9 - 0762 - 000		2	SCREW, RS, M3X8 RS タイト ネジ	
46	XH9 - 0084 - 000		1	DAMPER UNIT オイル ダンパ	
501	XB4 - 7200 - 609		1	SCREW,TAPPING,TRUSS HEAD,M2X6 バインド タッピン ネジ	

COPYRIGHT © 1995 CANON INC.
CANON NP6012/6012F/6212 REV.1 OCT.1995 PRINTED IN JAPAN (IMPRIME AU JAPON)

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
100 - 502	XB4 - 7300 - 609		2	SCREW,TAPPING,TRUSS HEAD,M3X6 バインド タッピン ネジ	
503	XB4 - 7401 - 009		3	SCREW,TAPPING,TRUSS HEAD,M4X10 バインド タッピン ネジ	

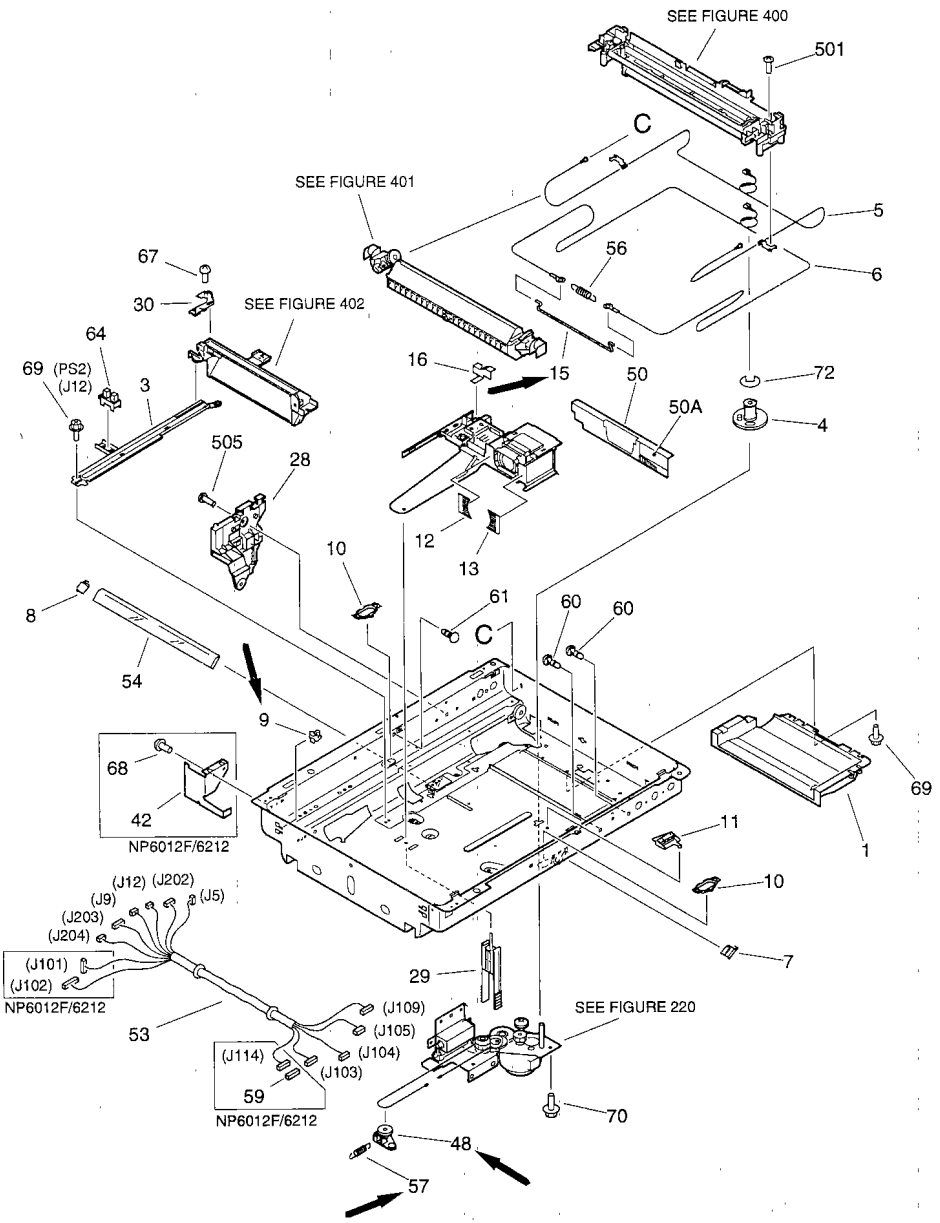
COPYRIGHT © 1995 : CANON INC.
CANON NP6012/6012F/6212 REV. 1-1 NOV. 1996 PRINTED IN JAPAN (IMPRIME AU JAPON)

FIGURE 101 UPPER MAIN BODY(1/2)
上部本体(1/2)



COPYRIGHT © 1995 CANON INC.
CANON NP6012/6012F/6212 REV. 1-1 NOV. 1996 PRINTED IN JAPAN (IMPRIME AU JAPON)

FIGURE 101 UPPER MAIN BODY(2/2)
上部本体(2/2)



COPYRIGHT © 1995, CANON INC.

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
101 -	NPN		RF	UPPER MAIN BODY 上部本体	
1	FB2 — 4603 — 000		1	PLATE, DUST-PROOF ボウジン バン	
→ 2	FB2 — 4604 — 030		1	MOUNT, HOME POSITION SENSOR ミラー ホーム センサ台	NP6012
	FB3 — 0820 — 000		1	MOUNT, HOME POSITION SENSOR ミラー ホーム センサ台	NP6012F/6212
3	FB2 — 4605 — 000		1	RAIL, ZOOM LENS ヘンバイ レール	
4	FB2 — 4610 — 000		1	PULLEY, DRIVE クドウ プーリ	
5	FB2 — 4611 — 000		1	WIRE, 1 ワイヤ (1)	
6	FB2 — 4612 — 000		1	WIRE, 2 ワイヤ (2)	
7	FB2 — 4613 — 000		1	RETAINER, MIRROR, 6, FRONT ダイ 6 ミラー バネ (マエ)	
8	FB2 — 4614 — 000		1	RETAINER, MIRROR, 6, REAR ダイ 6 ミラー バネ (ウシロ)	
→ 9	FB2 — 4622 — 020		2	HOLDER, WIRE ワイヤ ホルダ	
10	FB2 — 4626 — 000		2	CAP, EDGE エッジ キャップ	
11	FB2 — 4629 — 000		1	HOLDER, LENS レンズ オサエ	
12	FB2 — 4734 — 000		1	SHEET, 1 シート (1)	
13	FB2 — 4736 — 000		1	SHEET, 2 シート (2)	
→ 14	FB2 — 4791 — 000		4	SHEET, GLASS ガラス保護シート	
→ 15	FB2 — 4792 — 000		1	HOOK, WIRE STOPPING ワイヤ止め	
16	FB2 — 4840 — 000		1	SHEET, 7 フレア シート (7)	
17	FB2 — 4866 — 000		1	BLOCK, HOOK, FRONT フック イタ (マエ)	
18	FB2 — 4868 — 000		1	SHAFT, HOOK フック ジク	
19	FB2 — 4869 — 000		1	HOOK, FRONT フック (マエ)	
20	FB2 — 4870 — 000		1	HOOK, REAR フック (ウシロ)	
21	FB2 — 4871 — 000		1	LEVER, SWITCH スイッチ レバー	
22	FB2 — 4872 — 000		1	ACTUATOR アクチュエータ	
23	FB2 — 4873 — 000		1	PLATE, GROUNDING アース板	
24	FB2 — 4875 — 000		1	PLATE, LEVER GROUNDING レバー アース板	
25	FB2 — 4877 — 000		1	SPRING, TORSION ネジリ バネ	
26	FB2 — 4940 — 000		1	PLATE, REINFORCEMENT ホキョウ バン	
27	FB2 — 5036 — 000		2	BLOCK, SILENCER ショウオン ブロック	
28	FB2 — 5057 — 000		1	PLATE, BLANK EXPOSURE ブランク補強板	

COPYRIGHT © 1995 CANON INC.
CANON NP6012/6012F/6212 REV. 1-1 NOV. 1996 PRINTED IN JAPAN (IMPRIME AU JAPON)

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
101 - 29	FB2 — 5501 — 020		1	SCREW, M4X15 コテイ ビス	
30	FB3 — 0570 — 000		1	PLATE, LINK リンク板	
31	FB3 — 0623 — 000		1	FAN, EXHAUST 排熱ファン	
32	FB3 — 0626 — 000		1	SUPPORT, PULLEY SHAFT ファンプーリ軸支板	
33	FB3 — 0627 — 000		1	BLOCK, HOOK, REAR フック板（後）	
34	FB3 — 0630 — 000		1	BELT, FAN ファン ベルト	
35	FB3 — 0632 — 000		1	SUPPORT, FAN, REAR ファン支え（後）	
36	FB3 — 0633 — 000		1	JOINT ジョイント	
37	FB3 — 0639 — 000		1	PULLEY, FAN ファン プーリ	
38	FB3 — 0670 — 000		1	DIAL, DENSITY CONTROL 濃度補正 ダイヤル	
39	FB3 — 0671 — 000		1	GUIDE, DC CONTROLLER Dコン ガード	
40	FB3 — 0736 — 000		1	SHUTTER, FIXING 定着シャッタ	
41	FB3 — 0738 — 000		1	RUBBER, SHUTTER シャッタ ゴム	
42	FB3 — 0821 — 000		1	MOUNT, DF, LEFT DF台（左）	NP6012F/6212
43	FF2 — 9730 — 000		1	CABLE, HOME POSITION SENSOR HP センサ ソクセン	J7,101
44	FF2 — 9732 — 000		1	CABLE, DELIVERY SENSOR ハイシ センサ ソクセン	J9,10
45	FF2 — 9760 — 000		1	CABLE, FIXING HEATER テイチャク ヒータ チュウケイ ソクセン	J2,207
46	FF2 — 9799 — 000		1	CABLE, GROUNDING アース セン	
47	FF5 — 2859 — 000		1	HOLDING PLATE, FIXING ASSEMBLY テイチャクキ トリツケ バン	
48	FF5 — 2867 — 020		1	PULLEY, IDLER アイドラ プーリ	
49	FF5 — 2890 — 000		1	HOOD, LENS レンズ フード	
49A	FB2 — 4627 — 000		1	SHEET, LIGHT-BLOCKING, 1 遮光 シート（1）	
49B	FB2 — 4628 — 000		1	SHEET, LIGHT-BLOCKING, 2 遮光 シート（2）	
50	FF5 — 3716 — 000		1	SHEET, 2 フレア シート（2）	
50A	FB2 — 5058 — 000		1	SHEET, 4 フレア シート（4）	
51	FF5 — 3889 — 000		1	PLATE, AIR GUIDE 風路ガイド板	
51A	FB3 — 0587 — 000		1	SHEET, AIR GUIDE, 1 風路シート（1）	
51B	FB3 — 0588 — 000		1	SHEET, AIR GUIDE, 2 風路シート（2）	
52	FF5 — 3912 — 000		1	SUPPORT, FAN, FRONT ファン支え（前）	
52A	FB3 — 0625 — 000		1	PLATE, FAN GROUNDING ファン アース板	

COPYRIGHT © 1995 CANON INC.

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
101 - 53	FG5 - 3550 - 000		1	DC CONTROLLER CABLE DC上枠束線	NP6012 J5,9,12,103-105,109 J202-204
	FG5 - 5509 - 000		1	DC CONTROLLER CABLE DC上枠束線	NP6012F/6212 J5,9,12,101-105,109 J114,202-204
54	FN5 - 4021 - 000		1	MIRROR, 6 第6ミラー	
55	FS5 - 2797 - 000		1	SPRING, TORSION ネジリ バネ	
56	FS5 - 2802 - 000		1	SPRING, TENSION ヒッパリ バネ	
57	FS5 - 2803 - 020		1	SPRING, TENSION ヒッパリ バネ	
58	VS1 - 5057 - 003		1	CONNECTOR, SNAP TIGHT チュウケイ コネクタ	J9
59	VS1 - 5057 - 008		1	CONNECTOR, SNAP TIGHT チュウケイ コネクタ	NP6012F/6212 J114
60	VT2 - 5020 - 010		2	SPACER スペーサ	
61	VT2 - 5020 - 016		1	SPACER スペーサ	
62	WG8 - 5001 - 000		1	PHOTO-INTERRUPTER, TLP1231 フォトインタラプタ	PS3 J10
63	WG8 - 5001 - 000		1	PHOTO-INTERRUPTER, TLP1231 フォトインタラプタ	PS1 J7
64	WG8 - 5187 - 000		1	PHOTO-INTERRUPTER フォトインタラプタ	PS2 J12
65	WT2 - 5026 - 000		1	CLIP, CABLE クランプ	
66	WT2 - 5035 - 000		1	CLIP, CABLE エッジ サドル	
67	XA9 - 0187 - 000		2	SCREW,M3X6 バインド ネジ	
68	XA9 - 0187 - 000		1	SCREW,M3X6 バインド ネジ	NP6012F/6212
69	XA9 - 0760 - 000		AR	SCREW,RS,M3X6 RS タイト ネジ	
70	XA9 - 0794 - 000		4	SCREW,RS,M3X6 RS タイト ネジ	
71	XA9 - 0819 - 000		1	SCREW, RS, M3X8 RS タイト ネジ	
72	XD9 - 0136 - 000		1	RING,E E リング	
501	XB1 - 2300 - 609		3	SCREW,MACH.,TRUSS HEAD,M3X6 バインド ネジ	
502	XB2 - 7300 - 607		3	SCREW,W/WASHER,M3X6 バネツキ バインド ネジ	
503	XB4 - 7300 - 609		1	SCREW,TAPPING,TRUSS HEAD,M3X6 バインド タッピン ネジ	
504	XB4 - 7300 - 609		1	SCREW,TAPPING,TRUSS HEAD,M3X6 バインド タッピン ネジ	
505	XB4 - 7300 - 809		1	SCREW,TAPPING,TRUSS HEAD,M3X8 バインド タッピン ネジ	
506	XB4 - 7300 - 809		3	SCREW,TAPPING,TRUSS HEAD,M3X8 バインド タッピン ネジ	
507	XB4 - 7300 - 809		1	SCREW,TAPPING,TRUSS HEAD,M3X8 バインド タッピン ネジ	

COPYRIGHT © 1995 CANON INC.
CANON NP6012/6012F/6212 REV. 1-1 NOV. 1996 PRINTED IN JAPAN (IMPRIME AU JAPON)

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
101 - 29	FB3 - 0623 - 000		1	FAN, EXHAUST 排熱ファン	
30	FB3 - 0626 - 000		1	SUPPORT, PULLEY SHAFT ファンプーリ軸支板	
31	FB3 - 0627 - 000		1	BLOCK, HOOK, REAR フック板（後）	
32	FB3 - 0630 - 000		1	BELT, FAN ファン ベルト	
33	FB3 - 0632 - 000		1	SUPPORT, FAN, REAR ファン支え（後）	
34	FB3 - 0633 - 000		1	JOINT ジョイント	
35	FB3 - 0639 - 000		1	PULLEY, FAN ファン プーリ	
36	FB3 - 0670 - 000		1	DIAL, DENSITY CONTROL 濃度補正 ダイヤル	
37	FB3 - 0671 - 000		1	GUIDE, DC CONTROLLER Dコン ガード	
38	FB3 - 0736 - 000		1	SHUTTER, FIXING 定着シャッタ	FR6012/6212
39	FB3 - 0738 - 000		1	RUBBER, SHUTTER シャッタ ゴム	
40	FB3 - 0821 - 000		1	MOUNT, DF, LEFT DF台（左）	NP6012F/6212
41	FF2 - 9730 - 000		1	CABLE, HOME POSITION SENSOR HP センサ ソクセン	J7,101
42	FF2 - 9732 - 000		1	CABLE, DELIVERY SENSOR ハイシ センサ ソクセン	J9,10
43	FF2 - 9760 - 000		1	CABLE, FIXING HEATER テイチャク ヒータ チュウケイ ソクセン	J2,207
44	FF2 - 9799 - 000		1	CABLE, GROUNDING アース セン	
45	FF5 - 2859 - 000		1	HOLDING PLATE, FIXING ASSEMBLY テイチャクキ トリツケ バン	
46	FF5 - 2867 - 000		1	PULLEY, IDLER アイドラ プーリ	
47	FF5 - 2890 - 000		1	HOOD, LENS レンズ フード	
47A	FB2 - 4627 - 000		1	SHEET, LIGHT-BLOCKING, 1 遮光 シート (1)	
47B	FB2 - 4628 - 000		1	SHEET, LIGHT-BLOCKING, 2 遮光 シート (2)	
48	FF5 - 3716 - 000		1	SHEET, 2 フレア シート (2)	
48A	FB2 - 5058 - 000		1	SHEET, 4 フレア シート (4)	
49	FF5 - 3889 - 000		1	PLATE, AIR GUIDE 風路ガイド板	
49A	FB3 - 0587 - 000		1	SHEET, AIR GUIDE, 1 風路シート (1)	
49B	FB3 - 0588 - 000		1	SHEET, AIR GUIDE, 2 風路シート (2)	
50	FF5 - 3912 - 000		1	SUPPORT, FAN, FRONT ファン支え（前）	
50A	FB3 - 0625 - 000		1	PLATE, FAN GROUNDING ファン アース板	
51	FG5 - 3550 - 000		1	DC CONTROLLER CABLE DC上枠束線	NP6012 J5,9,12,103-105,109 J202-204

COPYRIGHT © 1995 CANON INC.

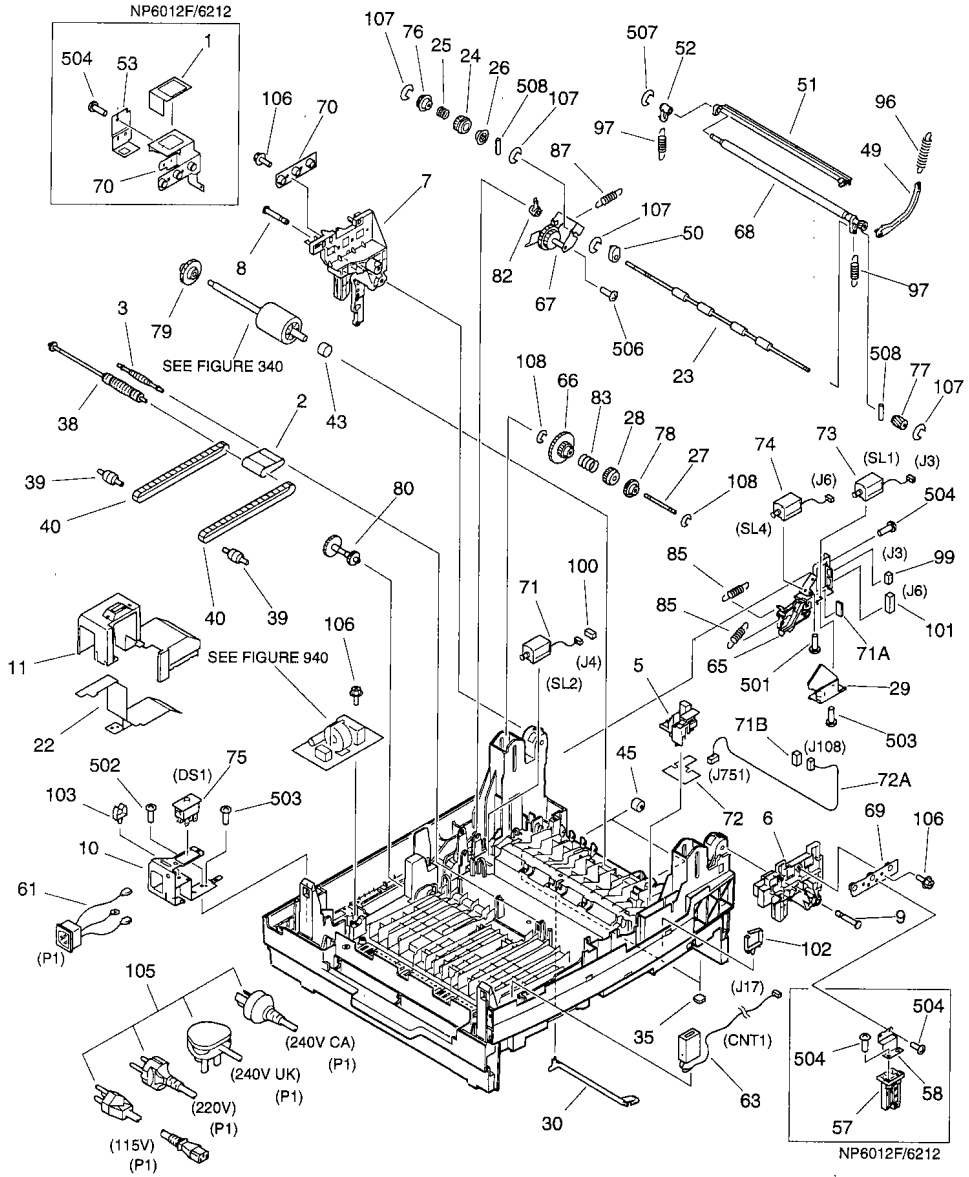
FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
101 - 51	FG5 - 5509 - 000		1	DC CONTROLLER CABLE DC上枠束線	NP6012F/6212 J5,9,12,101-105,109 J114,202-204
52	FN5 - 4021 - 000		1	MIRROR, 6 ダイ 6 ミラー	
53	FS5 - 2797 - 000		1	SPRING, TORSION ネジリ バネ	
54	FS5 - 2802 - 000		1	SPRING, TENSION ヒッパリ バネ	
55	FS5 - 2803 - 000		1	SPRING, TENSION ヒッパリ バネ	
56	VS1 - 5057 - 003		1	CONNECTOR, SNAP TIGHT チュウケイ コネクタ	J9
57	VS1 - 5057 - 008		1	CONNECTOR, SNAP TIGHT チュウケイ コネクタ	NP6012F/6212 J114
58	VT2 - 5020 - 010		2	SPACER スペーサ	
59	VT2 - 5020 - 016		1	SPACER スペーサ	
60	WG8 - 5001 - 000		1	PHOTO-INTERRUPTER, TLP1231 フォトインタラプタ	PS3 J10
61	WG8 - 5001 - 000		1	PHOTO-INTERRUPTER, TLP1231 フォトインタラプタ	PS1 J7
62	WG8 - 5187 - 000		1	PHOTO-INTERRUPTER フォトインタラプタ	PS2 J12
63	WT2 - 5026 - 000		1	CLAMP, CABLE ソクセン オサエ	
64	WT2 - 5035 - 000		1	CLIP, WIRE エッジ サドル	
65	XA9 - 0187 - 000		2	SCREW, M3X6 バインド ネジ	
66	XA9 - 0187 - 000		1	SCREW, M3X6 バインド ネジ	NP6012F/6212
67	XA9 - 0760 - 000		AR	SCREW, RS, M3X6 RS タイト ネジ	
68	XA9 - 0794 - 000		4	SCREW, RS, M3X6 RS タイト ネジ	
69	XA9 - 0819 - 000		1	SCREW, RS, M3X8 RS タイト ネジ	
70	XD9 - 0136 - 000		1	RING, E E リング	
501	XB1 - 2300 - 609		3	SCREW,MACH.,TRUSS HEAD,M3X6 バインド ネジ	
502	XB2 - 7300 - 607		3	SCREW,W/WASHER,M3X6 バネツキ バインド ネジ	
503	XB4 - 7300 - 609		1	SCREW,TAPPING,TRUSS HEAD,M3X6 バインド タッピン ネジ	
504	XB4 - 7300 - 609		1	SCREW,TAPPING,TRUSS HEAD,M3X6 バインド タッピン ネジ	
505	XB4 - 7300 - 809		1	SCREW,TAPPING,TRUSS HEAD,M3X8 バインド タッピン ネジ	
506	XB4 - 7300 - 809		3	SCREW,TAPPING,TRUSS HEAD,M3X8 バインド タッピン ネジ	
507	XB4 - 7300 - 809		1	SCREW,TAPPING,TRUSS HEAD,M3X8 バインド タッピン ネジ	
508	XD2 - 2300 - 502		1	WASHER,TOOTHED LOCK ハツキ トメワ	

COPYRIGHT © 1995 CANON INC.

FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
101 - 508	XD2 - 2300 - 502		1	RING,TOOTHED LOCK ハツキ トメワ	

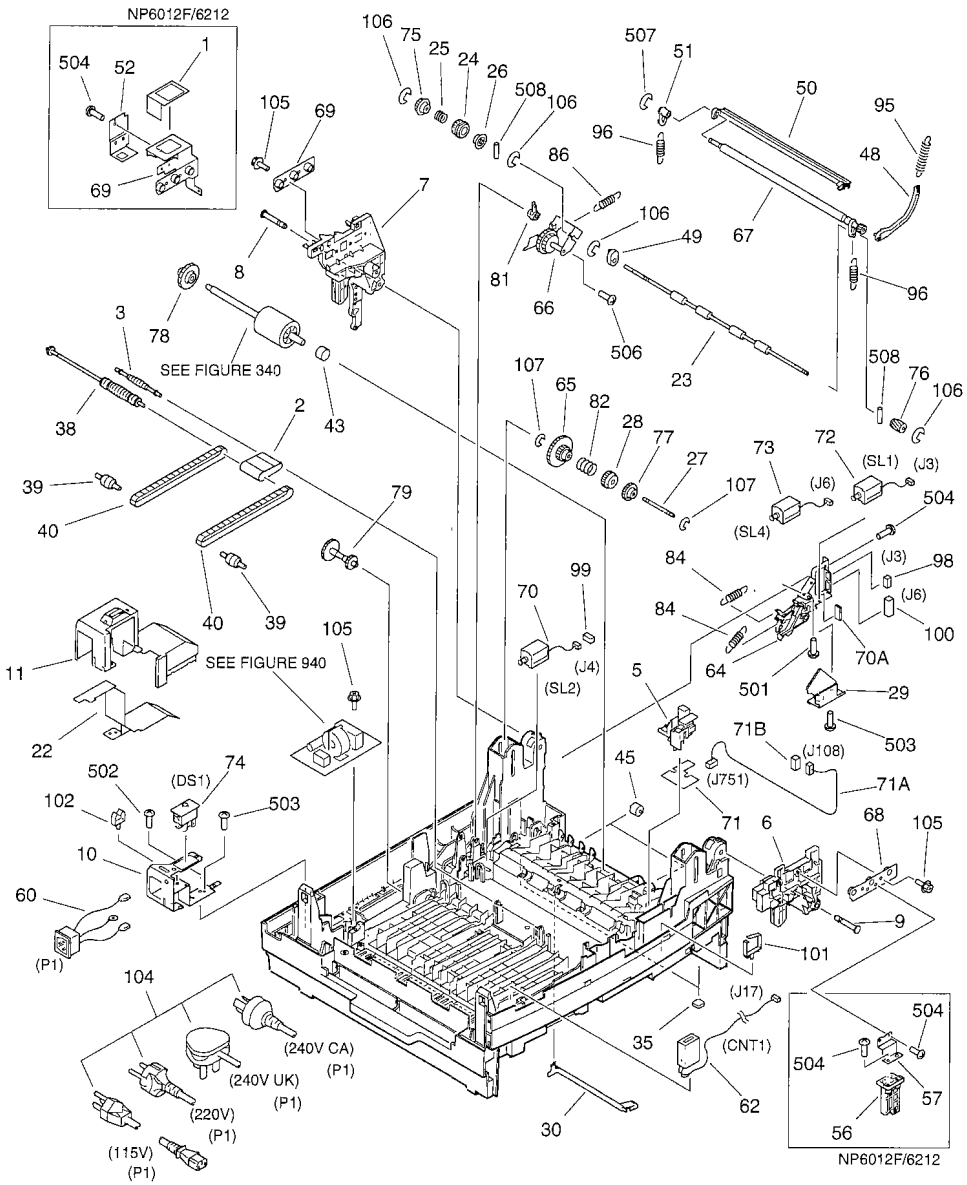
COPYRIGHT © 1995 CANON INC.
CANON NP6012/6012F/6212 REV. A-0 NOV. 1996 PRINTED IN JAPAN (IMPRIME AU JAPON)

FIGURE 102 LOWER MAIN BODY(1/2)
下部本体(1/2)



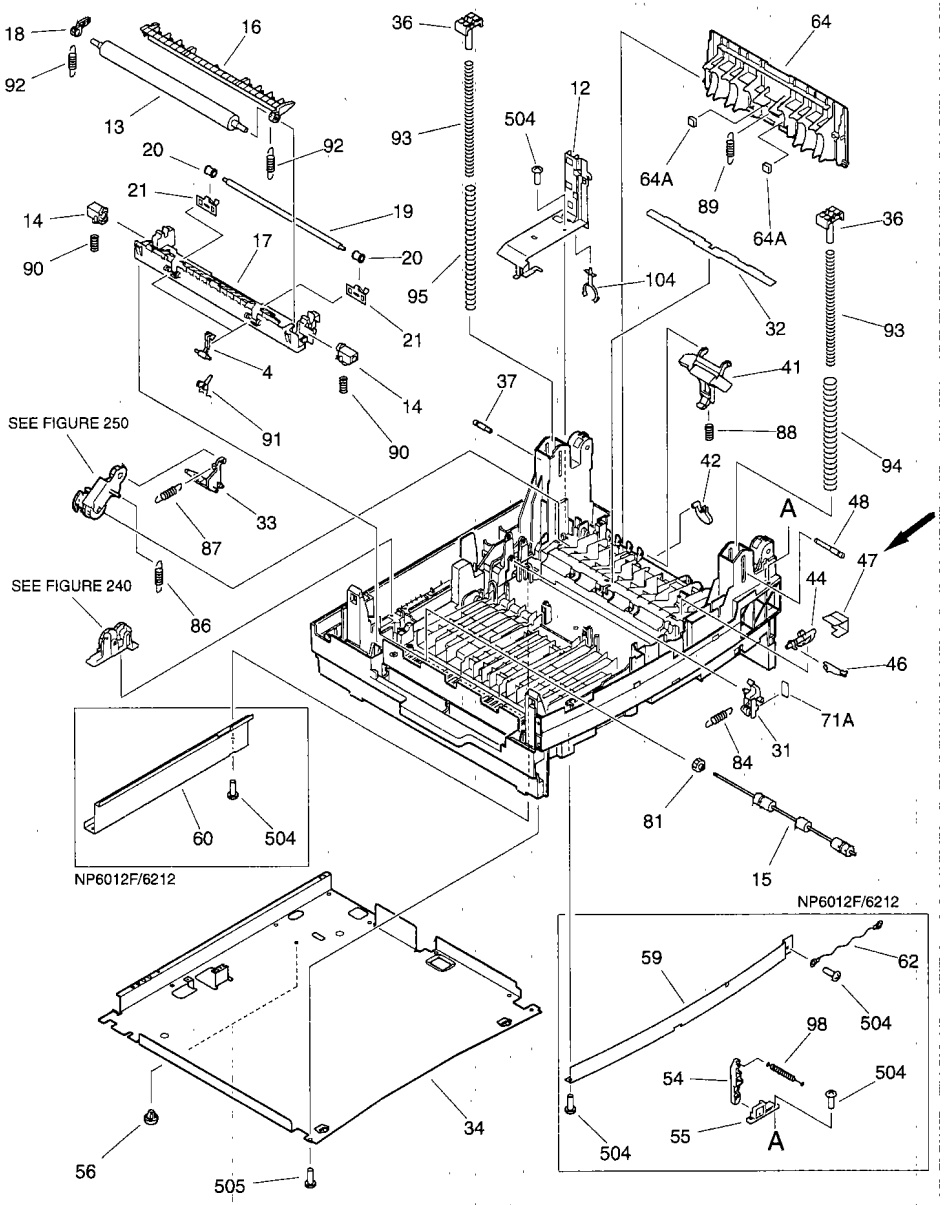
COPYRIGHT © 1995 CANON INC.
CANON NP6012/6012F/6212 REV. 1-1 NOV. 1996 PRINTED IN JAPAN (IMPRIME AU JAPON)

FIGURE 102 LOWER MAIN BODY(1/2)
下部本体(1/2)



COPYRIGHT © 1995 CANON INC.
CANON NP6012/6012F/6212 REV.1 OCT. 1995 PRINTED IN JAPAN [IMPRIME AU JAPON]

FIGURE 102 LOWER MAIN BODY(2/2)
下部本体(2/2)

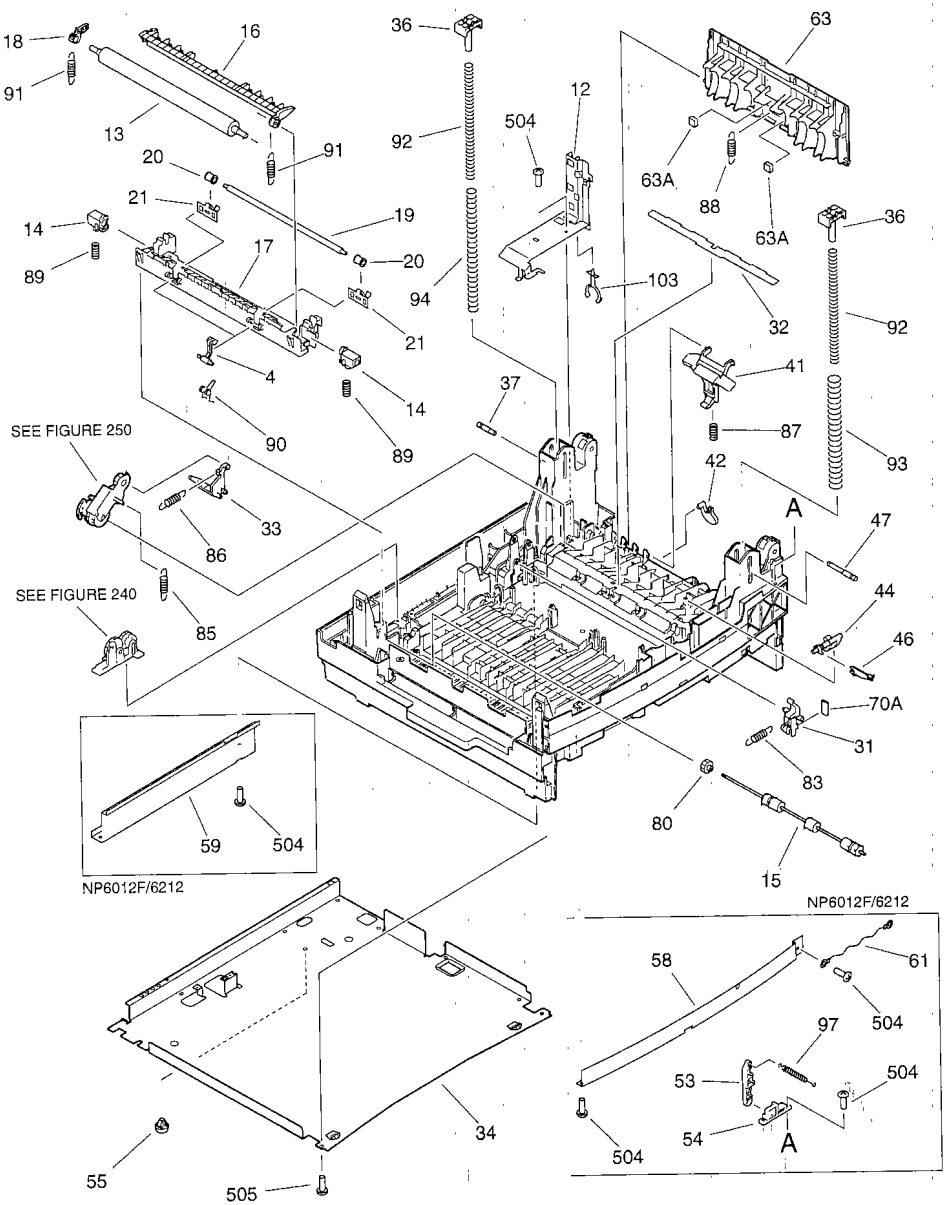


COPYRIGHT © 1995 CANON INC.

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
102 –	NPN		RF	LOWER MAIN BODY 下部本体	
1	FA9 – 3205 – 000		1	SHEET, AC CABLE AC線保護シート	NP6012F/6212
2	FB1 – 7267 – 000		1	BELT, PAPER FEED, 1 搬送ベルト (1)	
3	FB1 – 7270 – 000		1	PULLEY, BELT, 1 ベルト プーリ (1)	
4	FB1 – 7275 – 000		2	CLAW, SEPARATION ブンリ ツメ	
5	FB2 – 4780 – 000		1	COVER, SENSOR PCB センサ キバン カバー	
6	FB2 – 4928 – 000		1	MOUNT, HINGE, FRONT ヒンジ ダイ (マエ)	
7	FB2 – 4929 – 000		1	MOUNT, HINGE, REAR ヒンジ ダイ (ウシロ)	
8	FB2 – 4930 – 000		1	PIN, HINGE ヒンジ軸	
9	FB2 – 4930 – 000		1	PIN, HINGE ヒンジ軸	NP6012
	FB3 – 0833 – 000		1	PIN, HINGE ヒンジ軸	NP6012F/6212
10	FB2 – 4932 – 020		1	MOUNT, POWER CORD AC入力板	
11	FB2 – 4933 – 000		1	COVER, AC POWER SUPPLY ACカバー	
12	FB2 – 4935 – 000		1	GUIDE, CABLE タバセン ガイド	
13	FB2 – 5029 – 020		1	ROLLER, PRESSURE 加圧ローラ	
14	FB2 – 5030 – 000		2	HOLDER, ROLLER 加圧ローラ軸受け	
15	FB2 – 5031 – 000		1	ROLLER, DELIVERY ハイシ ローラ	
16	FB2 – 5032 – 000		1	GUIDE, ENTRANCE 入口ガイド	
17	FB2 – 5033 – 000		1	GUIDE, LOWER, DELIVERY 排紙下ガイド	
18	FB2 – 5034 – 000		1	HOLDER, ENTRANCE GUIDE 入口ガイド ホルダ	
19	FB2 – 5040 – 000		1	ROLLER, CLEANING クリーニング ローラ	
20	FB2 – 5041 – 000		2	BUSHING ブッシング	
21	FB2 – 5042 – 000		2	SPRING, LEAF 板バネ	
22	FB2 – 5060 – 000		1	SHIELD, NOISE ノイズ シールド	
23	FB2 – 5161 – 030		1	ROLLER, LOWER レジスト ローラ (下)	
24	FB2 – 5162 – 000		1	RING, RATCHET セイギョカン	
25	FB2 – 5163 – 000		1	SPRING, CLUTCH クラッチ バネ	
26	FB2 – 5164 – 000		1	DRUM, CLUTCH クラッチ ドラム	
27	FB2 – 5182 – 000		1	SHAFT, CLUTCH クラッチ ジク	
28	FB2 – 5183 – 000		1	RING, RATCHET セイギョカン	

COPYRIGHT © 1995 CANON INC.

FIGURE 102 LOWER MAIN BODY(2/2)
下部本体(2/2)



COPYRIGHT © 1995 CANON INC.
CANON NP6012/6012F/6212 REV.1 OCT. 1995 PRINTED IN JAPAN (IMPRIME AU JAPON)

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
102 -	NPN		RF	LOWER MAIN BODY 下部本体	
1	FA9 - 3205 - 000		1	SHEET, AC CABLE AC線保護シート	NP6012F/6212
2	FB1 - 7267 - 000		1	BELT, PAPER FEED, 1 ハンソウ ベルト (1)	
3	FB1 - 7270 - 000		1	PULLEY, BELT, 1 ベルト プーリ (1)	
4	FB1 - 7275 - 000		2	CLAW, SEPARATION ブンリ ツメ	
5	FB2 - 4780 - 000		1	COVER, SENSOR PCB センサ キバン カバー	
6	FB2 - 4928 - 000		1	MOUNT, HINGE, FRONT ヒンジ ダイ (マエ)	
7	FB2 - 4929 - 000		1	MOUNT, HINGE, REAR ヒンジ ダイ (ウシロ)	
8	FB2 - 4930 - 000		1	PIN, HINGE ヒンジ軸	
9	FB2 - 4930 - 000		1	PIN, HINGE ヒンジ軸	NP6012
	FB3 - 0833 - 000		1	PIN, HINGE ヒンジ軸	NP6012F/6212
10	FB2 - 4932 - 020		1	MOUNT, POWER CORD AC入力板	
11	FB2 - 4933 - 000		1	COVER, AC POWER SUPPLY ACカバー	
12	FB2 - 4935 - 000		1	GUIDE, CABLE タバセン ガイド	
13	FB2 - 5029 - 020		1	ROLLER, PRESSURE 加圧ローラ	
14	FB2 - 5030 - 000		2	HOLDER, ROLLER カアツ ローラ シクウケ	
15	FB2 - 5031 - 000		1	ROLLER, DELIVERY ハイシ ローラ	
16	FB2 - 5032 - 000		1	GUIDE, ENTRANCE 入口ガイド	
17	FB2 - 5033 - 000		1	GUIDE, LOWER, DELIVERY 排紙下ガイド	
18	FB2 - 5034 - 000		1	HOLDER, ENTRANCE GUIDE 入口ガイド ホルダ	
19	FB2 - 5040 - 000		1	ROLLER, CLEANING クリーニング ローラ	
20	FB2 - 5041 - 000		2	BUSHING ブッシング	
21	FB2 - 5042 - 000		2	SPRING, LEAF イタ バネ	
22	FB2 - 5060 - 000		1	SHIELD, NOISE ノイズ シールド	
23	FB2 - 5161 - 030		1	ROLLER, LOWER レジスト シタ ローラ	
24	FB2 - 5162 - 000		1	RING, RATCHET セイギョカン	
25	FB2 - 5163 - 000		1	SPRING, CLUTCH クラッチ バネ	
26	FB2 - 5164 - 000		1	DRUM, CLUTCH クラッチ ドラム	
27	FB2 - 5182 - 000		1	SHAFT, CLUTCH クラッチ ジク	
28	FB2 - 5183 - 000		1	RING, RATCHET セイギョカン	

COPYRIGHT © 1995 CANON INC

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
102 - 29	FB2 - 5192 - 000		1	COVER, SOLENOID ソレノイド カバー	
30	FB2 - 5221 - 000		1	LEVER, SENSOR レジスト センサ レバー	
31	FB2 - 5222 - 020		1	LEVER, CLUTCH クラッチ レバー	
32	FB2 - 5223 - 000		1	SHEET, GUIDE レジスト ガイド シート	
33	FB2 - 5224 - 000		1	ARM, PAPER PICK-UP ナカイタ アーム	
34	FB2 - 5302 - 000		1	PLATE, CASSETTE MOUNTING カセット ダイ イタ	
35	FB2 - 5303 - 000		2	FOOT, RUBBER ゴム アシ	
36	FB2 - 5304 - 000		2	BLOCK, HINGE SLIDING ヒンジ スライダ	
37	FB2 - 5305 - 000		1	PIN, SLIDE, 1 スライド軸 (1)	
38	FB2 - 5309 - 000		1	PULLEY, BELT, 2 ベルト プーリ (2)	
39	FB2 - 5310 - 000		2	PULLEY, BELT, 3 ベルト プーリ (3)	
40	FB2 - 5311 - 000		2	BELT, PAPER FEED, 2 ハンソウ ベルト (2)	
41	FB2 - 5380 - 020		1	PAD, SEPARATION 分離パッド	
42	FB2 - 5381 - 000		1	BLOCK, PAD パッド コマ	
43	FB2 - 5382 - 000		1	HOLDER, ROLLER ローラ ジクウケ	
44	FB2 - 5383 - 020		1	FLAG, SENSING, 1 残量検知フラグ (1)	
45	FB2 - 5385 - 000		2	ROLLER Uターン コロ	
46	FB2 - 5388 - 000		1	FLAG, SENSING, 2 残量検知フラグ (2)	
→ 47	FB2 - 5392 - 000		1	PLATE, FLAG HOLDING フラグ ストッパ	
48	FB3 - 0732 - 000		1	SHAFT, SLIDE, 2 スライド軸 (2)	NP6012
	FB3 - 0837 - 000		1	SHAFT, SLIDE, 2 スライド軸 (2)	NP6012F/6212
49	FB3 - 0743 - 000		1	ARM, PRESSURE RELEASE 圧解除アーム	
50	FB3 - 0744 - 000		1	BUSHING, SWING 揺動ブッシング	
51	FB3 - 0745 - 000		1	GUIDE, REGISTRATION, UPPER レジスト上ガイド	
52	FB3 - 0748 - 000		1	BUSHING, UPPER REGISTRATION ブッシング	
53	FB3 - 0826 - 000		1	SUPPORT, DF MOUNTING DF台支板	NP6012F/6212
54	FB3 - 0831 - 000		1	LEVER, SUPPORT 支持レバー	NP6012F/6212
55	FB3 - 0832 - 000		1	HOLDER, LEVER レバー ホルダ	NP6012F/6212
56	FB3 - 0840 - 000		1	FOOT, AUXILIARY 補助足	
57	FB3 - 0841 - 000		1	MOUNT, AUXILIARY HINGE 補助ヒンジ台	NP6012F/6212

COPYRIGHT © 1995 CANON INC.

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
102 - 58	FB3 - 0842 - 000		1	PLATE, HINGE MOUNTING ヒンジ台支持台	NP6012F/6212
59	FB3 - 0844 - 000		1	PLATE, REINFORCEMENT, FRONT 補強板金（前）	NP6012F/6212
60	FB3 - 0845 - 000		1	PLATE, REINFORCEMENT, REAR 補強板金（後）	NP6012F/6212
61	FF2 - 9789 - 000		1	CABLE, AC INLET AC インレット ソクセン	P1
62	FF2 - 9800 - 000		1	CABLE, GROUNDING アース線	NP6012F/6212
63	FF3 - 1215 - 000		1	COUNTER カウンタ	CNT1 J119
64	FF5 - 2858 - 000		1	COVER Uターン カバー	
64A	FB2 - 5422 - 000		2	DAMPER, RUBBER ゴム ダンパ	
65	FF5 - 2873 - 030		1	MOUNT, SOLENOID ソレノイド台	
66	FF5 - 3714 - 000		1	GEAR, 17T/80T 17T／80T ギア	
67	FF5 - 3927 - 000		1	PLATE, REGIST SWING レジスト揺動板	
68	FF5 - 3928 - 020		1	ROLLER, REGISTRATION, UPPER レジスト ローラ（上）	
69	FF9 - 1499 - 000		1	PLATE, HINGE STOP, FRONT ヒンジ止め板（前）	NP6012
	FF5 - 3923 - 000		1	PLATE, HINGE STOP, FRONT ヒンジ止め板（前）	NP6012F/6212
70	FF9 - 1500 - 000		1	PLATE, HINGE STOP, REAR ヒンジ止め板（後）	NP6012
	FF5 - 3922 - 000		1	PLATE, HINGE STOP, REAR ヒンジ止め板（後）	NP6012F/6212
71	FF9 - 1505 - 000		1	SOLENOID ソレノイド	SL2 J4
71A	FB2 - 5191 - 000		2	PAD, SILENCER 消音パッド	
71B	VS1 - 5057 - 003		1	CONNECTOR, SNAP TIGHT チュウケイ コネクタ	J22
72	FG5 - 5496 - 000		1	SENSOR PCB UNIT センサ回路基板ユニット	
72A	FF3 - 0479 - 000		1	CABLE, SENSOR PCB UNIT センサ回路基板束線	J108,751
73	FH7 - 5627 - 000		1	SOLENOID, DC24V ソレノイド	SL1 J3
74	FH7 - 5628 - 000		1	SOLENOID, DC24V ソレノイド	SL4 J6
75	FH7 - 6216 - 000		1	SWITCH, INTERLOCK インタロック スイッチ	DS1
76	FS5 - 0883 - 000		1	GEAR, 34T 34T ギア	
77	FS5 - 0885 - 000		1	GEAR, 14T 14T ギア	
78	FS5 - 0887 - 000		1	GEAR, 25T 25T ギア	
79	FS5 - 0903 - 000		1	GEAR, 36T 36T ギア	
80	FS5 - 0913 - 020		1	GEAR, 17T/18T 17T／18T ギア	
81	FS5 - 0915 - 000		1	GEAR, 14T 14T ギア	

COPYRIGHT © 1996 CANON INC.
CANON NP6012/6012F/6212 REV. 1-1 NOV. 1996 PRINTED IN JAPAN (IMPRIME AU JAPON)

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
102 - 29	FB2 - 5192 - 000		1	COVER, SOLENOID ソレノイド カバー	
30	FB2 - 5221 - 000		1	LEVER, SENSOR レジスト センサ レバー	
31	FB2 - 5222 - 020		1	LEVER, CLUTCH クラッチ レバー	
32	FB2 - 5223 - 000		1	SHEET, GUIDE レジスト ガイド シート	
33	FB2 - 5224 - 000		1	ARM, PAPER PICK-UP ナカイタ アーム	
34	FB2 - 5302 - 000		1	PLATE, CASSETTE MOUNTING カセット タイ イタ	
35	FB2 - 5303 - 000		2	FOOT, RUBBER ゴム アシ	
36	FB2 - 5304 - 000		2	BLOCK, HINGE SLIDING ヒンジ スライダ	
37	FB2 - 5305 - 000		1	PIN, SLIDE, 1 スライド軸 (1)	
38	FB2 - 5309 - 000		1	PULLEY, BELT, 2 ベルト プーリ (2)	
39	FB2 - 5310 - 000		2	PULLEY, BELT, 3 ベルト プーリ (3)	
40	FB2 - 5311 - 000		2	BELT, PAPER FEED, 2 ハンソウ ベルト (2)	
41	FB2 - 5380 - 020		1	PAD, SEPARATION ブンリ パッド	
42	FB2 - 5381 - 000		1	BLOCK, PAD パッド コマ	
43	FB2 - 5382 - 000		1	HOLDER, ROLLER ローラ ジクウケ	
44	FB2 - 5383 - 020		1	FLAG, SENSING, 1 残量検知フラグ (1)	
45	FB2 - 5385 - 000		2	ROLLER Uターン コロ	
46	FB2 - 5388 - 000		1	FLAG, SENSING, 2 残量検知フラグ (2)	
47	FB3 - 0732 - 000		1	SHAFT, SLIDE, 2 スライド軸 (2)	NP6012
	FB3 - 0837 - 000		1	SHAFT, SLIDE, 2 スライド軸 (2)	NP6012F/6212
48	FB3 - 0743 - 000		1	ARM, PRESSURE RELEASE 圧解除アーム	
49	FB3 - 0744 - 000		1	BUSHING, SWING 揺動ブッシング	
50	FB3 - 0745 - 000		1	GUIDE, REGISTRATION, UPPER レジスト上ガイド	
51	FB3 - 0748 - 000		1	BUSHING, UPPER REGISTRATION ブッシング	
52	FB3 - 0826 - 000		1	SUPPORT, DF MOUNTING DF台支板	NP6012F/6212
53	FB3 - 0831 - 000		1	LEVER, SUPPORT 支持レバー	NP6012F/6212
54	FB3 - 0832 - 000		1	HOLDER, LEVER レバー ホルダ	NP6012F/6212
55	FB3 - 0840 - 000		1	FOOT, AUXILIARY 補助足	
56	FB3 - 0841 - 000		1	MOUNT, AUXILIARY HINGE 補助ヒンジ台	NP6012F/6212
57	FB3 - 0842 - 000		1	PLATE, HINGE MOUNTING ヒンジ台支持台	NP6012F/6212

COPYRIGHT © 1995 CANON INC

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
102 – 58	FB3 – 0844 – 000		1	PLATE, REINFORCEMENT, FRONT 補強板金（前）	NP6012F/6212
59	FB3 – 0845 – 000		1	PLATE, REINFORCEMENT, REAR 補強板金（後）	NP6012F/6212
60	FF2 – 9789 – 000		1	CABLE, AC INLET AC インレット ソクセン	P1
61	FF2 – 9800 – 000		1	CABLE, GROUNDING アース線	NP6012F/6212
62	FF3 – 1215 – 000		1	COUNTER カウンタ	CNT1 J119
63	FF5 – 2858 – 000		1	COVER Uターン カバー	
63A	FB2 – 5422 – 000		2	DAMPER, RUBBER ゴム ダンパ	
64	FF5 – 2873 – 030		1	MOUNT, SOLENOID ソレノイド台	
65	FF5 – 3714 – 000		1	GEAR, 17T/80T 17T／80T ギア	
66	FF5 – 3927 – 000		1	PLATE, REGIST SWING レジスト揺動板	
67	FF5 – 3928 – 020		1	ROLLER, REGISTRATION, UPPER レジスト ローラ（上）	
68	FF9 – 1499 – 000		1	PLATE, HINGE STOP, FRONT ヒンジ止め板（前）	NP6012
	FF5 – 3923 – 000		1	PLATE, HINGE STOP, FRONT ヒンジ止め板（前）	NP6012F/6212
69	FF9 – 1500 – 000		1	PLATE, HINGE STOP, REAR ヒンジ止め板（後）	NP6012
	FF5 – 3922 – 000		1	PLATE, HINGE STOP, REAR ヒンジ止め板（後）	NP6012F/6212
70	FF9 – 1505 – 000		1	SOLENOID ソレノイド	SL2 J4
70A	FB2 – 5191 – 000		2	PAD, SILENCER 消音パッド	
71	FG5 – 5496 – 000		1	SENSOR PCB UNIT センサ回路基板ユニット	
71A	FF3 – 0479 – 000		1	CABLE, SENSOR PCB UNIT センサ回路基板束線	J108,751
71B	VS1 – 5057 – 003		1	CONNECTOR, SNAP TIGHT チュウケイ コネクタ	J22
72	FH7 – 5627 – 000		1	SOLENOID, DC24V ソレノイド	SL1 J3
73	FH7 – 5628 – 000		1	SOLENOID, DC24V ソレノイド	SL4 J6
74	FH7 – 6216 – 000		1	SWITCH, INTERLOCK インタロック スイッチ	DS1
75	FS5 – 0883 – 000		1	GEAR, 34T 34T ギア	
76	FS5 – 0885 – 000		1	GEAR, 14T 14T ギア	
77	FS5 – 0887 – 000		1	GEAR, 25T 25T ギア	
78	FS5 – 0903 – 000		1	GEAR, 36T 36T ギア	
79	FS5 – 0913 – 020		1	GEAR, 17T/18T 17T／18T ギア	
80	FS5 – 0915 – 000		1	GEAR, 14T 14T ギア	
81	FS5 – 1440 – 000		1	BUSHING, REGISTRATION, REAR ブッシング（後）	

COPYRIGHT © 1995 CANON INC.
CANON NP6012/6012F/6212 REV.1 OCT. 1995 PRINTED IN JAPAN [IMPRIME AU JAPON]

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
102 - 82	FS5 - 1440 - 000		1	BUSHING, REGISTRATION, REAR ブッシング（後）	
83	FS5 - 2351 - 000		1	SPRING, CLUTCH クラッチ バネ	
84	FS5 - 2767 - 000		1	SPRING, TENSION ヒッパリ バネ	
85	FS5 - 2771 - 000		2	SPRING, TENSION ヒッパリ バネ	
86	FS5 - 2772 - 000		1	SPRING, TENSION ヒッパリ バネ	
87	FS5 - 2773 - 000		2	SPRING, TENSION ヒッパリ バネ	
88	FS5 - 2778 - 000		1	SPRING, COMPRESSION アッシュク バネ	
89	FS5 - 2779 - 000		1	SPRING, TENSION ヒッパリ バネ	
90	FS5 - 2798 - 000		2	SPRING, COMPRESSION アッシュク バネ	
91	FS5 - 2799 - 000		2	SPRING, TORSION ネジリ バネ	
92	FS5 - 2800 - 000		2	SPRING, TENSION ヒッパリ バネ	
93	FS5 - 2806 - 000		2	SPRING, COMPRESSION アッシュク バネ	NP6012
	FS6 - 2234 - 000		2	SPRING, COMPRESSION アッシュク バネ	NP6012F/6212
94	FS6 - 2232 - 000		1	SPRING, COMPRESSION アッシュク バネ	
95	FS6 - 2233 - 000		1	SPRING, COMPRESSION アッシュク バネ	NP6012
	FS6 - 2232 - 000		1	SPRING, COMPRESSION アッシュク バネ	NP6012F/6212
96	FS6 - 2239 - 000		1	SPRING, TENSION ヒッパリ バネ	
97	FS6 - 2240 - 000		2	SPRING, TENSION ヒッパリ バネ	
98	FS6 - 2241 - 000		1	SPRING, TENSION ヒッパリ バネ	NP6012F/6212
99	VS1 - 5057 - 002		1	CONNECTOR, SNAP TIGHT チュウケイ コネクタ	J3
100	VS1 - 5057 - 002		1	CONNECTOR, SNAP TIGHT チュウケイ コネクタ	J4
101	VS1 - 5057 - 003		1	CONNECTOR, SNAP TIGHT チュウケイ コネクタ	J6
102	WT2 - 0494 - 000		1	CLAMP, CABLE ソクセン オサエ	
103	WT2 - 5026 - 000		1	CLIP, CABLE クランプ	
104	WT2 - 5335 - 000		1	SPACER, HARNESS LOCK ハーネス ロック スペーサ	
105	WT3 - 5021 - 000		1	CORD, POWER SUPPLY 電源コード	115V P1
	FH2 - 5761 - 000		1	CORD, POWER 電源コード	220V P1
	RH2 - 5015 - 000		1	CORD, POWER SUPPLY 電源コード	240V UK P1
	RH2 - 5276 - 000		1	CORD, POEWR SUPPLY 電源コード	240V CA P1
106	XA9 - 0763 - 000		6	SCREW,RS,M3X11 RS タイト ネジ	

COPYRIGHT © 1995 CANON INC.

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
102 - 107	XD9 - 0134 - 000		4	RING,E E リング	
108	XD9 - 0134 - 000		2	RING,E E リング	
501	XB1 - 2300 - 409		2	SCREW,MACH.,TRUSS HEAD,M3X4 バインド ネジ	
502	XB1 - 2300 - 809		2	SCREW,MACH.,TRUSS HEAD,M3X8 バインド ネジ	
503	XB2 - 7300 - 607		AR	SCREW,W/WASHER,M3X6 バネツキ バインド ネジ	
504	XB4 - 7300 - 809		AR	SCREW,TAPPING,TRUSS HEAD,M3X8 バインド タッピン ネジ	
505	XB4 - 7400 - 609		9	SCREW,TAPPING,TRUSS HEAD,M4X6 バインド タッピン ネジ	
506	XB6 - 7300 - 609		1	SCREW,TP,M3X6 TP ネジ	
507	XD2 - 1100 - 402		2	RING,E E リング	
508	XD3 - 2160 - 062		2	PIN,DOWEL ヘイコウ ピン	

COPYRIGHT © 1995 CANON INC.
CANON NP6012/6012F/6212 REV.0-1 NOV. 1996 PRINTED IN JAPAN (IMPRIME AU JAPON)

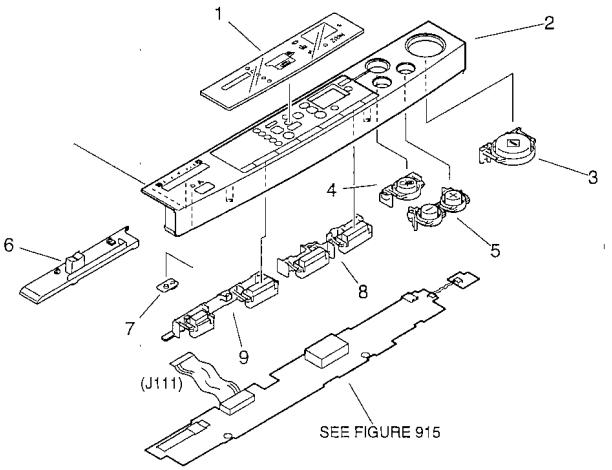
FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
102 – 82	FS5 – 2351 – 000		1	SPRING, CLUTCH クラッチ バネ	
83	FS5 – 2767 – 000		1	SPRING, TENSION ヒッパリ バネ	
84	FS5 – 2771 – 000		2	SPRING, TENSION ヒッパリ バネ	
85	FS5 – 2772 – 000		1	SPRING, TENSION ヒッパリ バネ	
86	FS5 – 2773 – 000		2	SPRING, TENSION ヒッパリ バネ	
87	FS5 – 2778 – 000		1	SPRING, COMPRESSION アッシュク バネ	
88	FS5 – 2779 – 000		1	SPRING, TENSION ヒッパリ バネ	
89	FS5 – 2798 – 000		2	SPRING, COMPRESSION アッシュク バネ	
90	FS5 – 2799 – 000		2	SPRING, TORSION ネジリ バネ	
91	FS5 – 2800 – 000		2	SPRING, TENSION ヒッパリ バネ	
92	FS5 – 2806 – 000		2	SPRING, COMPRESSION アッシュク バネ	NP6012
	FS6 – 2234 – 000		2	SPRING, COMPRESSION アッシュク バネ	NP6012F/6212
93	FS6 – 2232 – 000		1	SPRING, COMPRESSION アッシュク バネ	
94	FS6 – 2233 – 000		1	SPRING, COMPRESSION アッシュク バネ	NP6012
	FS6 – 2232 – 000		1	SPRING, COMPRESSION アッシュク バネ	NP6012F/6212
95	FS6 – 2239 – 000		1	SPRING, TENSION ヒッパリ バネ	
96	FS6 – 2240 – 000		2	SPRING, TENSION ヒッパリ バネ	
97	FS6 – 2241 – 000		1	SPRING, TENSION ヒッパリ バネ	NP6012F/6212
98	VS1 – 5057 – 002		1	CONNECTOR, SNAP TIGHT チュウケイ コネクタ	J3
99	VS1 – 5057 – 002		1	CONNECTOR, SNAP TIGHT チュウケイ コネクタ	J4
100	VS1 – 5057 – 003		1	CONNECTOR, SNAP TIGHT チュウケイ コネクタ	J6
101	WT2 – 0494 – 000		1	CLAMP, CABLE ソクセン オサエ	
102	WT2 – 5026 – 000		1	CLAMP, CABLE ソクセン オサエ	
103	WT2 – 5335 – 000		1	SPACER, HARNESS LOCK ハーネス ロック スペーサ	
104	WT3 – 5021 – 000		1	CORD, POWER SUPPLY 電源コード	115V P1
	FH2 – 5761 – 000		1	CORD, POWER SUPPLY 電源コード	220V P1
	RH2 – 5015 – 000		1	CORD, POWER SUPPLY 電源コード	240V UK P1
	RH2 – 5276 – 000		1	CORD, POEWR SUPPLY 電源コード	240V CA P1
105	XA9 – 0763 – 000		6	SCREW, RS, M3X11 RS タイト ネシ	
106	XD9 – 0134 – 000		4	RING, E E リング	

COPYRIGHT © 1995 CANON INC.

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
102 - 107	XD9 - 0134 - 000		2	RING, E E リング	
501	XB1 - 2300 - 409		2	SCREW,MACH.,TRUSS HEAD,M3X4 バインド ネジ	
502	XB1 - 2300 - 809		2	SCREW,MACH.,TRUSS HEAD,M3X8 バインド ネジ	
503	XB2 - 7300 - 607		AR	SCREW,W/WASHER,M3X6 バネツキ バインド ネジ	
504	XB4 - 7300 - 809		AR	SCREW,TAPPING,TRUSS HEAD,M3X8 バインド タッピン ネジ	
505	XB4 - 7400 - 609		9	SCREW,TAPPING,TRUSS HEAD,M4X6 バインド タッピン ネジ	
506	XB6 - 7300 - 609		1	SCREW,TP,M3X6 TP ネジ	
507	XD2 - 1100 - 402		2	RING,E E リング	
508	XD3 - 2160 - 062		2	PIN,DOWEL ヘイコウ ピン	

COPYRIGHT © 1995 CANON INC.
CANON NP6012/6012F/6212 REV.0 OCT. 1995 PRINTED IN JAPAN [IMPRIME AU JAPON]

FIGURE 130 CONTROL PANEL ASSEMBLY 操作部



NOTE1:This assembly includes the assembly shown in Figure 915.
NOTE2:This assembly does not include the part shown with key No.1.
注1：このユニットはFigure 915のユニットを含みます。
注2：このユニットにKey No. 1の部品は含まれません。

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
130 -	FG5 - 5450 - 000		1	CONTROL PANEL ASSEMBLY 操作部	NP6012 SEE NOTE 1
	FG5 - 5452 - 000		1	CONTROL PANEL ASSEMBLY 操作部	NP6012F/6212 SEE NOTE 1
1	FB3 - 0650 - 000		1	PANEL, CLEAR クリア パネル	NP6012;115V SEE NOTE 2
	FB3 - 0651 - 000		1	PANEL, CLEAR クリア パネル	NP6012;220/240V SEE NOTE 2
	FB3 - 0655 - 000		1	PANEL, CLEAR クリア パネル	NP6012F SEE NOTE 2
	FB3 - 0656 - 000		1	PANEL, CLEAR クリア パネル	NP6212 SEE NOTE 2
2	FB3 - 0660 - 000		1	COVER, CONTROL PANEL 操作カバー	
3	FB3 - 0661 - 000		1	KEY TOP, START スタート キー	
4	FB3 - 0662 - 000		1	KEY TOP, CLEAR/STOP クリア/ストップ キー	
5	FB3 - 0663 - 000		1	KEY TOP, NUMBER ナンバー キー	
6	FB3 - 0664 - 000		1	KNOB, DENSITY CONTROL 濃度調整ノブ	
7	FB3 - 0665 - 000		1	COVER, LED LEDカバー	
8	FB3 - 0666 - 000		1	KEY TOP, FUNCTION, 1 ファンクション キー (1)	
9	FB3 - 0667 - 000		1	KEY TOP, FUNCTION, 2 ファンクション キー (2)	

COPYRIGHT © 1995 CANON INC.

FIGURE 160 COPYBOARD COVER ASSEMBLY (NP6012)
原稿台カバー部（NP6012）

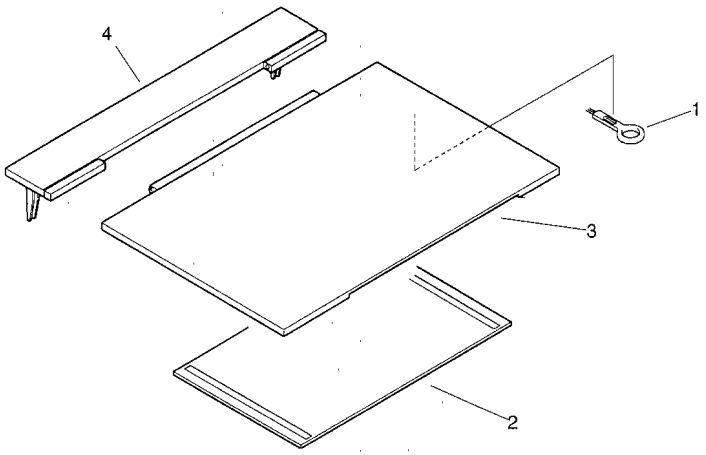
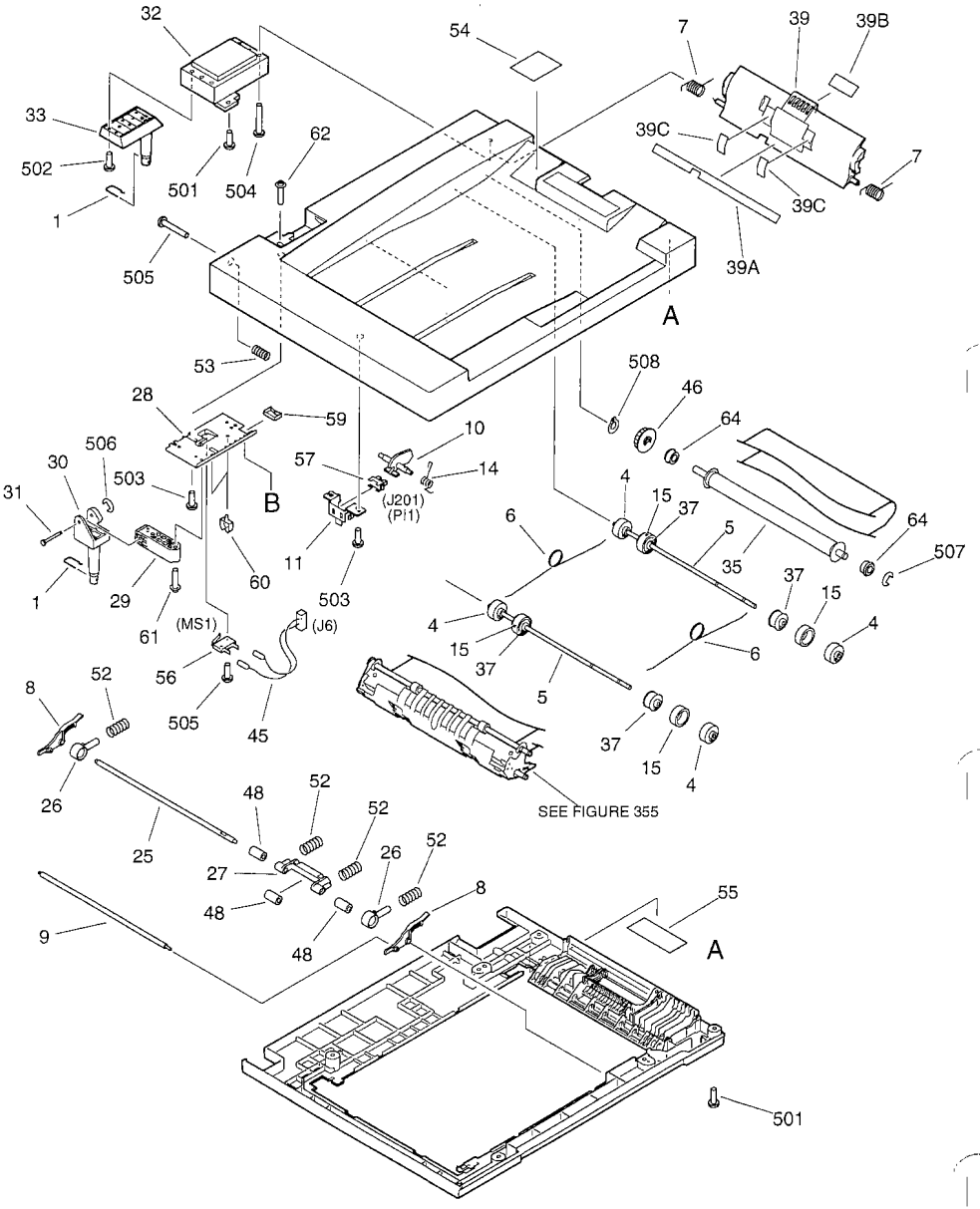


FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
160 -	FG5 — 3532 — 000		1	COPYBOARD COVER ASSEMBLY ゲンコウダイ　カバー　ブ	NP6012
1	FA9 — 3102 — 000		1	BRUSH, CLEANING クリーナ　ブラシ	
2	FB1 — 8870 — 000		1	SHEET, COPYBOARD アッチャク　シート	
3	FB2 — 5423 — 000		1	COVER, COPYBOARD, LARGE ゲンコウダイ　カバー（ダイ）	
4	FB2 — 5424 — 000		1	COVER, COPYBOARD, SMALL ゲンコウダイ　カバー（ショウ）	

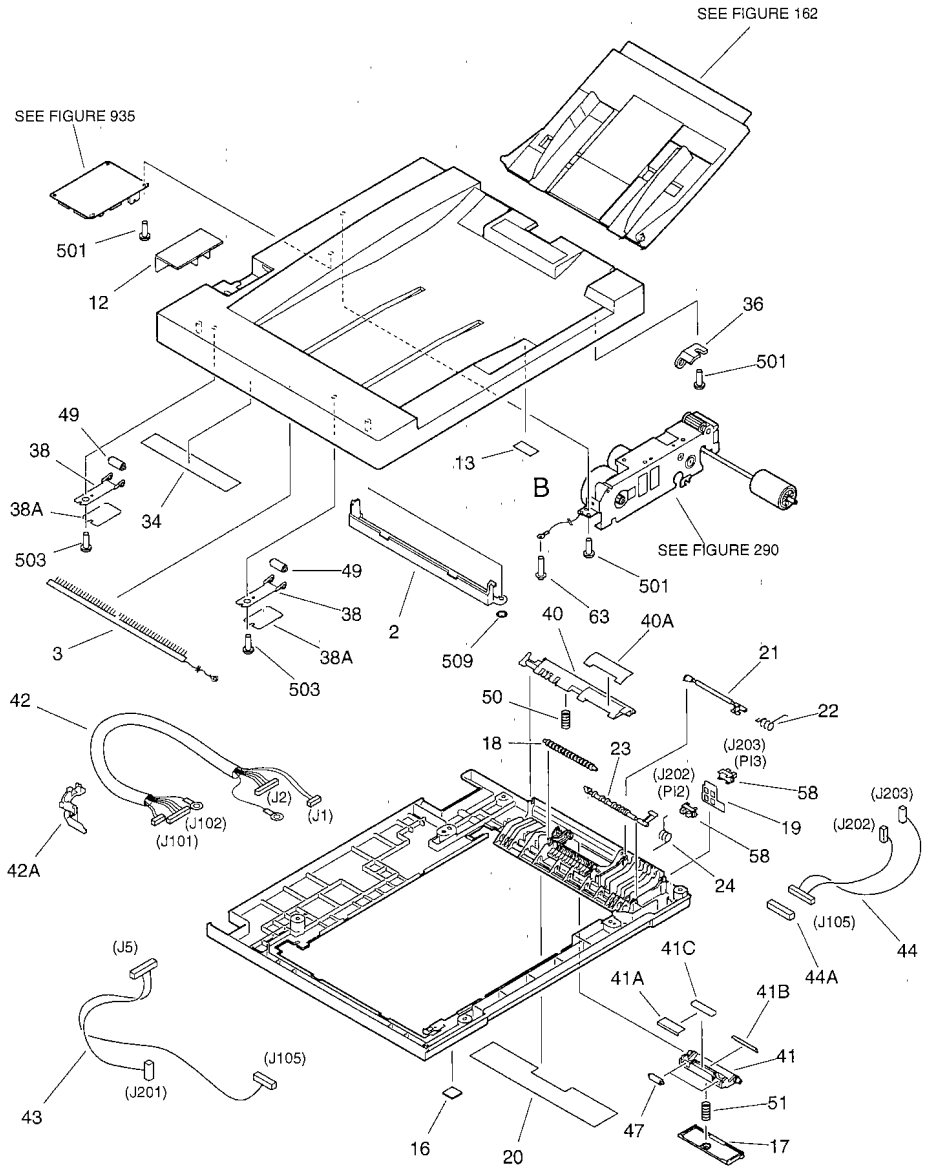
COPYRIGHT © 1995 CANON INC.
CANON NP6012/6012F/6212 REV.1 OCT. 1995 PRINTED IN JAPAN (IMPRIME AU JAPON)

FIGURE 161 DF ASSEMBLY (NP6012F/6212)(1/2)
DF部 (NP6012F／6212) (1/2)



COPYRIGHT © 1995 CANON INC.
CANON NP6012/6012F/6212 REV.0 OCT. 1995 PRINTED IN JAPAN [IMPRIME AU JAPON]

FIGURE 161 DF ASSEMBLY (NP6012F/6212)(2/2)
DF部（NP6012F／6212）(2/2)



COPYRIGHT © 1995 CANON INC.

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
161 -	NPN		RF	DF ASSEMBLY DF部	NP6012F/6212
1	FB3 - 0829 - 000		2	PIN, DF SUPPORT DF止めピン	
2	FB3 - 3311 - 000		1	CROSSMEMBER, DELIVERY 排紙ステイ	
3	FB3 - 3312 - 000		1	ELIMINATOR, STATIC CHARGE 除電針	
4	FB3 - 3314 - 000		4	ROLLER, BELT, 1 ベルト コロ (1)	
5	FB3 - 3315 - 000		2	SHAFT, BELT ベルト コロ軸	
6	FB3 - 3316 - 000		2	SPRING, TORSION ネジリ バネ	
7	FB3 - 3321 - 000		2	SPRING, TORSION ネジリ バネ	
8	FB3 - 3322 - 000		2	LINK, RELEASE 解除リンク	
9	FB3 - 3323 - 000		1	SHAFT, TENSION テンション軸	
10	FB3 - 3324 - 000		1	FLAG, SENSOR センサ フラッグ	
11	FB3 - 3325 - 000		1	MOUNT, SENSOR センサ台	
12	FB3 - 3326 - 000		1	COVER, POCKET ポケット カバー	
13	FB3 - 3328 - 000		5	SHEET, CABLE 束線シート	
14	FB3 - 3330 - 000		1	SPRING, TORSION ネジリ バネ	
15	FB3 - 3332 - 000		4	ROLLER, RUBBER ゴム コロ	
16	FB3 - 3334 - 000		4	SHEET, 1 シート (1)	
17	FB3 - 3335 - 000		1	COVER, PAD パッド カバー	
18	FB3 - 3336 - 000		1	ROLLER, GUIDE ガイド ローラ	
19	FB3 - 3337 - 000		1	PLATE, SENSOR MOUNTING センサ取り付け板	
20	FB3 - 3338 - 000		1	SHEET, 2 シート (2)	
21	FB3 - 3342 - 000		1	FLAG, SENSOR, 1 センサ フラッグ (1)	
22	FB3 - 3343 - 000		1	SPRING, TORSION ネジリ バネ	
23	FB3 - 3344 - 000		1	FLAG, SENSOR, 2 センサ フラッグ (2)	
24	FB3 - 3345 - 000		1	SPRING, TORSION ネジリ バネ	
25	FB3 - 3346 - 000		1	SHAFT, REGISTRATION レジスト軸	
26	FB3 - 3347 - 000		1	LINK, PRESSURE 加圧リンク	
27	FB3 - 3348 - 000		1	LEVER, RELEASE 解除レバー	
28	FB3 - 3355 - 000		1	CROSSMEMBER, HINGE, LEFT ヒンジ ステイ (左)	
29	FB3 - 3356 - 000		1	HINGE, LEFT, UPPER 左ヒンジ (上)	

COPYRIGHT © 1995 CANON INC.

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
161 - 30	FB3 — 3357 — 000		1	HINGE, LEFT, LOWER 左ヒンジ (下)	
31	FB3 — 3358 — 000		1	SHAFT, LEFT HINGE 左ヒンジ軸	
32	FB3 — 3360 — 000		1	HINGE, FREE STOP フリー ストップ ヒンジ	
33	FB3 — 3361 — 000		1	FOOT, HINGE, RIGHT ヒンジ足 (右)	
34	FB3 — 3364 — 000		1	LABEL, OPERATION, 4 操作ラベル (4)	
35	FB3 — 3365 — 000		1	ROLLER, DRIVE 駆動ローラ	
36	FB3 — 3401 — 000		1	BUSHING, LEVER レバー ブッシング	
37	FB3 — 3402 — 000		4	ROLLER, BELT, 2 ベルト コロ (2)	
38	FF5 — 4674 — 000		1	HOLDER, ROLLER コロ支板	
38A	FB3 — 3329 — 000		2	SHEET, 3 シート (3)	
39	FF5 — 4675 — 000		1	HANDLE, UPPER ハンドル (上)	
39A	FB3 — 3318 — 000		1	SHEET, FRONT REGISTRATION レジ前シート	
39B	FB3 — 3319 — 000		1	SHEET, INLET 入口シート	
39C	FB3 — 3320 — 000		2	SHEET, HANDLE レバー シート	
40	FF5 — 4677 — 000		1	PLATE, PAPER LIFTER リフタ	
40A	FB3 — 3340 — 000		1	SHEET, PAPER LIFTER リフタ シート	
41	FF5 — 4679 — 000		1	FLAPPER フラッパ	
41A	FB3 — 3349 — 000		1	PAD, RUBBER パッド ゴム	
41B	FB3 — 3350 — 000		1	SHEET, INLET 入口 シート	
41C	FB3 — 3351 — 000		1	PAD, SPONGE パッド スポンジ	
42	FG2 — 7467 — 000		1	CABLE, INTERFACE インターフェース束線	J1,2,101,102
42A	FB3 — 0835 — 000		1	GUIDE, CABLE 束線ガイド	
43	FG2 — 7469 — 000		1	CABLE, SENSOR, 1 センサ束線 (1)	J5,105,201
44	FG2 — 7470 — 000		1	CABLE, SENSOR, 2 センサ束線 (2)	J105,202,203
44A	VS1 — 5057 — 006		1	CONNECTOR, SNAP TIGHT チュウケイ コネクタ	J105
45	FG2 — 7471 — 000		1	CABLE, MICROSWITCH マイクロ スイッチ束線	J6
46	FS5 — 3458 — 000		1	PULLEY, 44T 44T プーリ	
47	FS5 — 6453 — 000		2	ROLLER, 1 コロ (1)	
48	FS5 — 6454 — 000		3	ROLLER, REGISTRATION レジスト コロ	
49	FS5 — 6455 — 000		2	ROLLER, 2 コロ (2)	

COPYRIGHT © 1995 CANON INC.

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
161 – 50	FS6 – 2369 – 000		1	SPRING, COMPRESSION アッシュク バネ	
51	FS6 – 2370 – 000		1	SPRING, COMPRESSION アッシュク バネ	
52	FS6 – 2371 – 000		4	SPRING, COMPRESSION アッシュク バネ	
53	FS6 – 2373 – 000		1	SPRING, COMPRESSION アッシュク バネ	
54	FS6 – 8194 – 000		1	LABEL, OPERATION, 2 操作ラベル (2)	
55	FS6 – 8195 – 000		1	LABEL, OPERATION, 3 操作ラベル (3)	
56	WC4 – 5030 – 000		1	MICROSWITCH マイクロ スイッチ	MS1
57	WG8 – 5309 – 000		1	PHOTO-INTERRUPTER フォトインタラプタ	PI1 J201
58	WG8 – 5206 – 000		2	PHOTO-INTERRUPTER フォトインタラプタ	PI2,3 J202,203
59	WT2 – 0204 – 010		1	CLIP, CABLE エッジ サドル	
60	WT2 – 0317 – 010		2	CLIP, CABLE ロッキング ワイヤ サドル	
61	XA9 – 0632 – 000		2	SCREW, RS, M4X26 RS タイト ネジ	
62	XA9 – 0632 – 000		1	SCREW, RS, M4X26 RS タイト ネジ	
63	XA9 – 0633 – 000		5	SCREW, RS, M4X8 RS タイト ネジ	
64	XG9 – 0237 – 000		2	BEARING, BALL ボール ベアリング	
501	XB1 – 2400 – 609		AR	SCREW,MACH.,TRUSS HEAD,M4X6 バインド ネジ	
502	XB4 – 7301 – 009		AR	SCREW,TAPPING,TRUSS HEAD,M3X10 バインド タッピン ネジ	
503	XB4 – 7400 – 809		AR	SCREW,TAPPING,TRUSS HEAD,M4X8 バインド タッピン ネジ	
504	XB4 – 7401 – 209		4	SCREW,TAPPING,TRUSS HEAD,M4X12 バインド タッピン ネジ	
505	XB5 – 2301 – 209		1	SCREW,CT,M3X12 CT ネジ	
506	XD2 – 1100 – 322		AR	RING,E E リング	
507	XD2 – 1100 – 642		AR	RING,E E リング	
508	XD2 – 2100 – 802		1	RING,GRIP クリップ リング	
509	XD2 – 2300 – 502		2	WASHER,TOOTHED LOCK ハツキ トメワ	

COPYRIGHT © 1995 CANON INC.
CANON NP6012/6012F/6212 REV.0 OCT. 1995 PRINTED IN JAPAN [IMPRIME AU JAPON]

FIGURE 162 DF TRAY ASSEMBLY (NP6012F/6212)
DFトレイ部（NP6012F／6212）

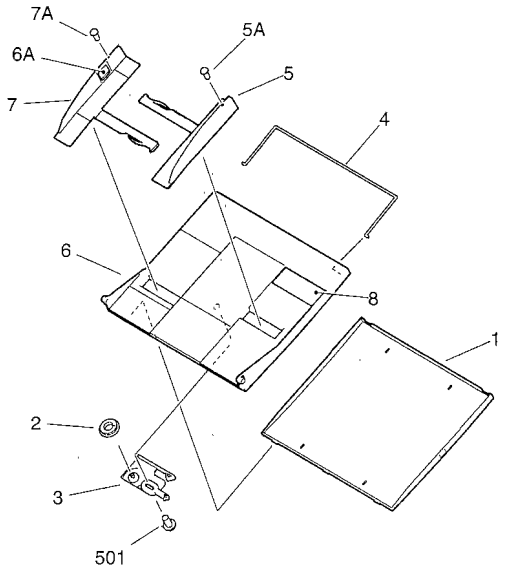
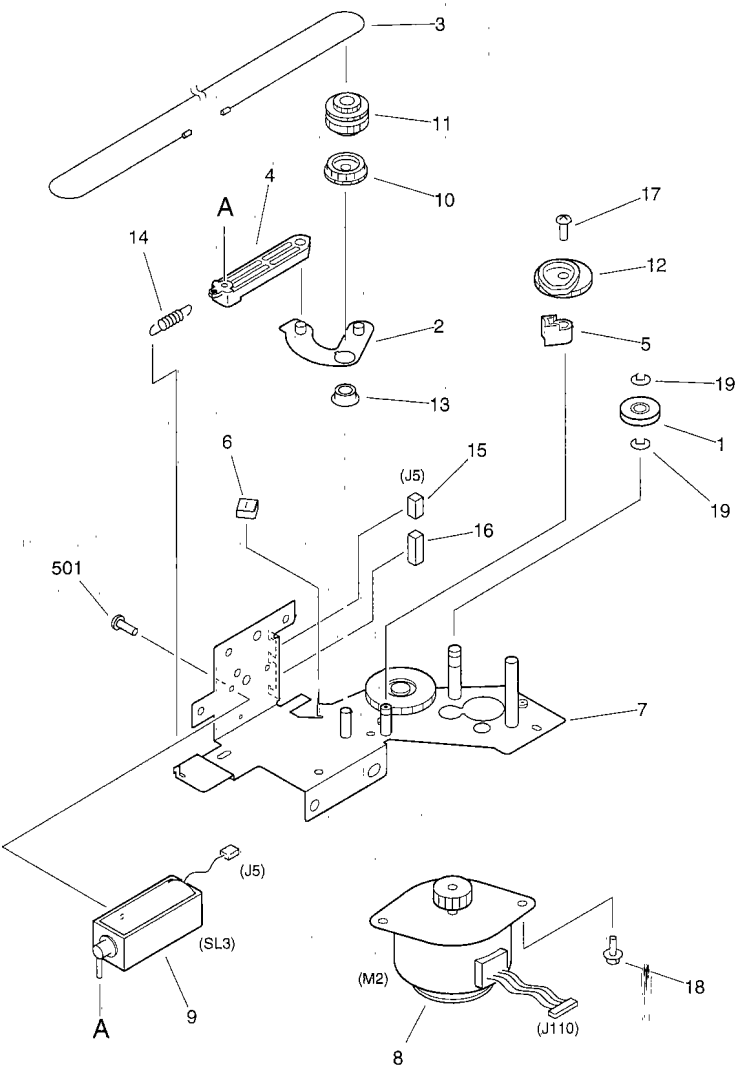


FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
162 −	FG5 − 6412 − 000		1	DF TRAY ASSEMBLY DFトレイ部	NP6012F/6212
1	FB3 − 3391 − 000		1	COVER, LOWER 下カバー	
2	FB3 − 3395 − 000		1	GEAR, 20T 20T ギア	
3	FB3 − 3396 − 000		1	PLATE, SLIDE スライド板	
4	FB3 − 3397 − 000		1	TRAY, SUB サブ トレイ	
5	FF5 − 4678 − 000		1	GUIDE, SLIDE, FRONT スライド ガイド（前）	
5 A	FB3 − 3392 − 000		1	RUBBER, STOP ストッパ ゴム	
6	FF5 − 4683 − 000		1	TRAY, DOCUMENT 原稿トレイ	
6 A	FS6 − 8196 − 000		1	LABEL, "PAPER HEIGHT" 積載ラベル	
7	FF5 − 4684 − 000		1	GUIDE, SLIDE, REAR スライド ガイド（後）	
7 A	FB3 − 3392 − 000		1	RUBBER, STOP ストッパ ゴム	
8	FS6 − 8197 − 000		1	LABEL, "PAPER SIZE" 紙サイズ ラベル	
5 0 1	XB4 − 7400 − 809		1	SCREW,TAPPING,TRUSS HEAD,M4X8 バインド タッピン ネジ	

COPYRIGHT © 1995 CANON INC.

FIGURE 220 SCANNER DRIVE ASSEMBLY
光学駆動部



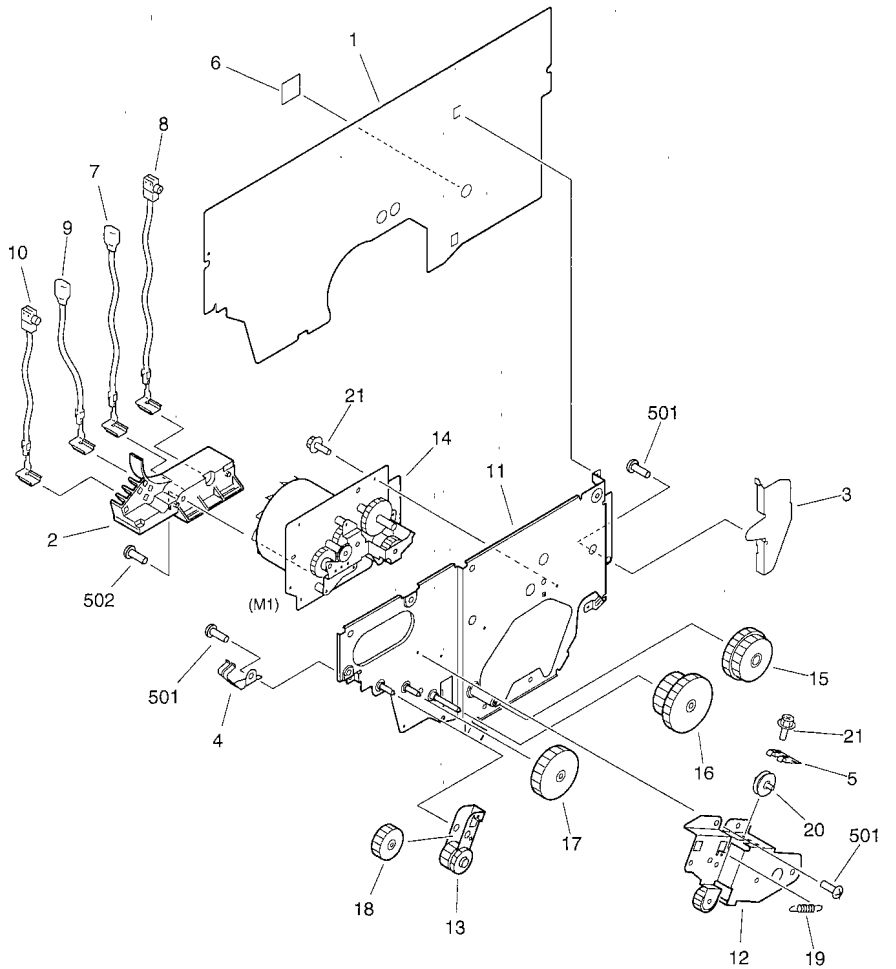
NOTE:This assembly does not include the parts shown with key No.3,5,12 and 17.
注：このユニットにKey No. 3、5、12、17の部品は含まれません。

COPYRIGHT © 1995 CANON INC.
CANON NP6012/6012F/6212 REV.1 OCT. 1995 PRINTED IN JAPAN [IMPRIME AU JAPON]

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
220 -	FG5 - 3465 - 020		1	SCANNER DRIVE ASSEMBLY 光学駆動部	
1	FB2 - 4616 - 000		1	PULLEY プーリ	
2	FB2 - 4701 - 000		1	ARM, SOLENOID, 1 ソレノイド アーム (1)	
3	FB2 - 4702 - 000		1	WIRE ワイヤ	SEE NOTE
4	FB2 - 4703 - 000		1	ARM, SOLENOID, 2 ソレノイド アーム (2)	
5	FB2 - 4704 - 000		1	BLOCK, WIRE STOP ワイヤ ストッパ	SEE NOTE
6	FB2 - 4705 - 000		1	RUBBER, STOP ストップ ゴム	
7	FF5 - 2868 - 000		1	MOUNT, MOTOR モータ シバン	
8	FH6 - 1078 - 000		1	MOTOR, STEPPING ステッピング モータ	M2 J110
9	FH7 - 5564 - 000		1	SOLENOID, DC24V DC ソレノイド	SL3 J5
10	FS5 - 0917 - 000		1	GEAR, 40T 40T ギア	
11	FS5 - 0918 - 000		1	GEAR, 24T/39T 24T/39T ギア	
12	FS5 - 0919 - 000		1	GEAR, 53T 53T ギア	SEE NOTE
13	FS5 - 1439 - 000		1	BUSHING ブッシング	
14	FS5 - 2821 - 000		1	SPRING, TENSION ヒッパリ バネ	
15	VS1 - 5057 - 002		1	CONNECTOR, SNAP TIGHT チュウケイ コネクタ	J5
16	VS1 - 5057 - 006		1	CONNECTOR, SNAP TIGHT チュウケイ コネクタ	
17	XA9 - 0187 - 000		1	SCREW, M3X6 バインド ネジ	SEE NOTE
18	XA9 - 0760 - 000		2	SCREW, RS, M3X6 RS タイト ネジ	
19	XD9 - 0136 - 000		2	RING, E E リング	
501	XB1 - 2300 - 409		2	SCREW,MACH.,TRUSS HEAD,M3X4 バインド ネジ	

COPYRIGHT © 1995 CANON INC

FIGURE 230 MAIN DRIVE ASSEMBLY
メイン駆動部



COPYRIGHT © 1995 CANON INC.
CANON NP6012/6012F/6212 REV.1 OCT. 1995 PRINTED IN JAPAN (IMPRIME AU JAPON)

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
230 –	NPN		RF	MAIN DRIVE ASSEMBLY メイン駆動部	
1	FB2 – 4918 – 000		1	SHEET, INSULATION ゼツエン シート	
2	FB2 – 4927 – 000		1	MOUNT, TERMINAL, UPPER ウエ デンキョク ダイ	
3	FB3 – 0581 – 000		1	PLATE, BLANKING 目かくし板	
4	FB3 – 0583 – 000		1	SPRING, LEAF 板バネ	
5	FB3 – 0629 – 000		1	PLATE, IDLER HOLDER アイドラ ホルダ板	
6	FB3 – 0816 – 000		1	SHEET, LEAK STOPPER リーク防止シート	
7	FF2 – 9724 – 000		1	CABLE, TERMINAL, PRIMARY 高圧接点束線（1次帯電）	
8	FF2 – 9725 – 000		1	CABLE, TERMINAL, TRANSFER 高圧接点束線（転写）	
9	FF2 – 9726 – 000		1	CABLE, TERMINAL 高圧接点束線	
10	FF2 – 9727 – 000		1	CABLE, TERMINAL, ELIMINATOR 高圧接点束線（除電）	
11	FF5 – 2886 – 000	N	1	SIDE PLATE クドウ ソクバン	
12	FF5 – 2887 – 000	N	1	FRONT PANEL, AUXILIARY ホキョウ マエ ソクバン	
13	FF5 – 2888 – 000		1	PLATE, SWING ヨウドウ バン	
14	FH6 – 1209 – 000		1	MOTOR, DC24V DC モータ	M1
15	FS5 – 0905 – 000		1	GEAR, 58T/35T 58T／35T ギア	
16	FS5 – 0906 – 000		1	GEAR, 48T/34T 48T／34T ギア	
17	FS5 – 0907 – 000		1	GEAR, 41T 41T ギア	
18	FS5 – 0908 – 000		1	GEAR, 25T 25T キア	
19	FS5 – 2785 – 000		1	SPRING, TENSION ヒッパリ バネ	
20	FS5 – 6393 – 000		1	ROLLER, IDLER アイドラ コロ	
21	XA9 – 0760 – 000		2	SCREW, RS, M3X6 RS タイト ネジ	
501	XB1 – 2300 – 609		1	SCREW,MACH.,TRUSS HEAD,M3X6 バインド ネジ	
502	XB1 – 2400 – 609		1	SCREW,MACH.,TRUSS HEAD,M4X6 バインド ネジ	

COPYRIGHT © 1995 CANON INC.

FIGURE 240 DELIVERY DRIVE ASSEMBLY
排紙駆動部

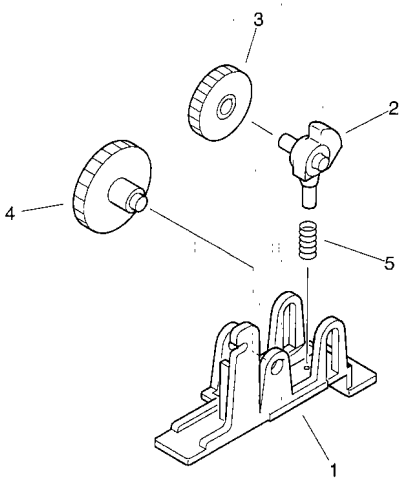


FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
240 –	FG5 – 3501 – 000		1	DELIVERY DRIVE ASSEMBLY ハイシ クドウ ブ	
1	FB2 – 5051 – 000		1	BOX, GEAR ハイシ ギア ボックス	
2	FB2 – 5052 – 000		1	SHAFT, GEAR ギア ジク	
3	FS5 – 0911 – 000		1	GEAR, 20T 20T ギア	
4	FS5 – 0912 – 000		1	GEAR, 40T/39T 40T／39T ギア	
5	FS5 – 2786 – 000		1	SPRING, COMPRESSION アッシュク バネ	

COPYRIGHT © 1995 CANON INC.
CANON NP6012/6012F/6212 REV.0 JUNE 1995 PRINTED IN JAPAN [IMPRIME AU JAPON]

FIGURE 250 PAPER PICK-UP DRIVE ASSEMBLY
給紙駆動部

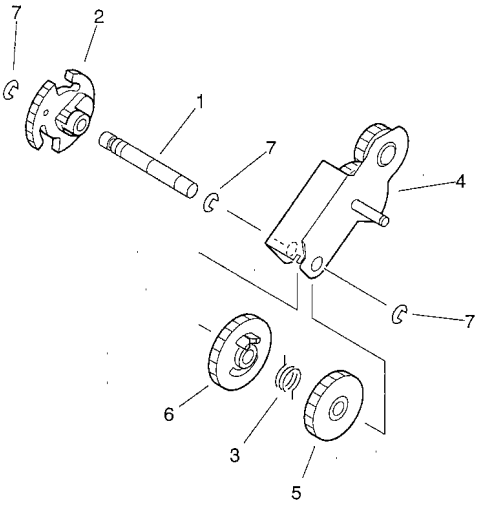
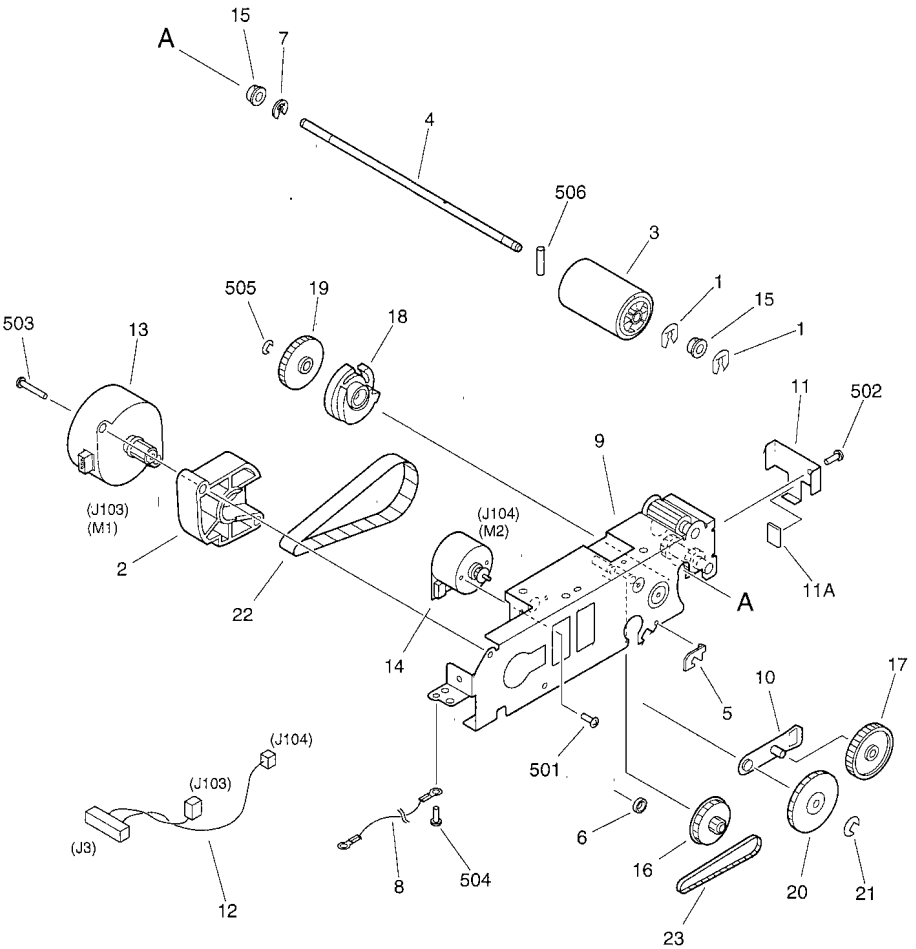


FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
250 -	FG5 — 3511 — 000		1	PICK-UP DRIVE ASSEMBLY キュウシ クドウ ブ	
1	FB2 — 5197 — 000		1	SHAFT, SWING PLATE ヨウドウ ジク	
2	FB2 — 5198 — 000		1	GEAR, 32T 32T ギア	
3	FB2 — 5199 — 000		1	SPRING, TORSION ネジリ バネ	
4	FF5 — 2874 — 000		1	PLATE, SWING ヨウドウ バン	
5	FS5 — 0890 — 000		1	GEAR, 32T 32T ギア	
6	FS5 — 0900 — 000		1	GEAR, 18T 18T ギア	
7	XD9 — 0136 — 000		3	RING, E E リング	

COPYRIGHT © 1995 CANON INC.

FIGURE 290 DF DRIVE ASSEMBLY (NP6012F/6212)
DF駆動部（NP6012F／6212）



COPYRIGHT © 1995 CANON INC.
CANON NP6012/6012F/6212 REV.0 OCT. 1995 PRINTED IN JAPAN [IMPRIME AU JAPON]

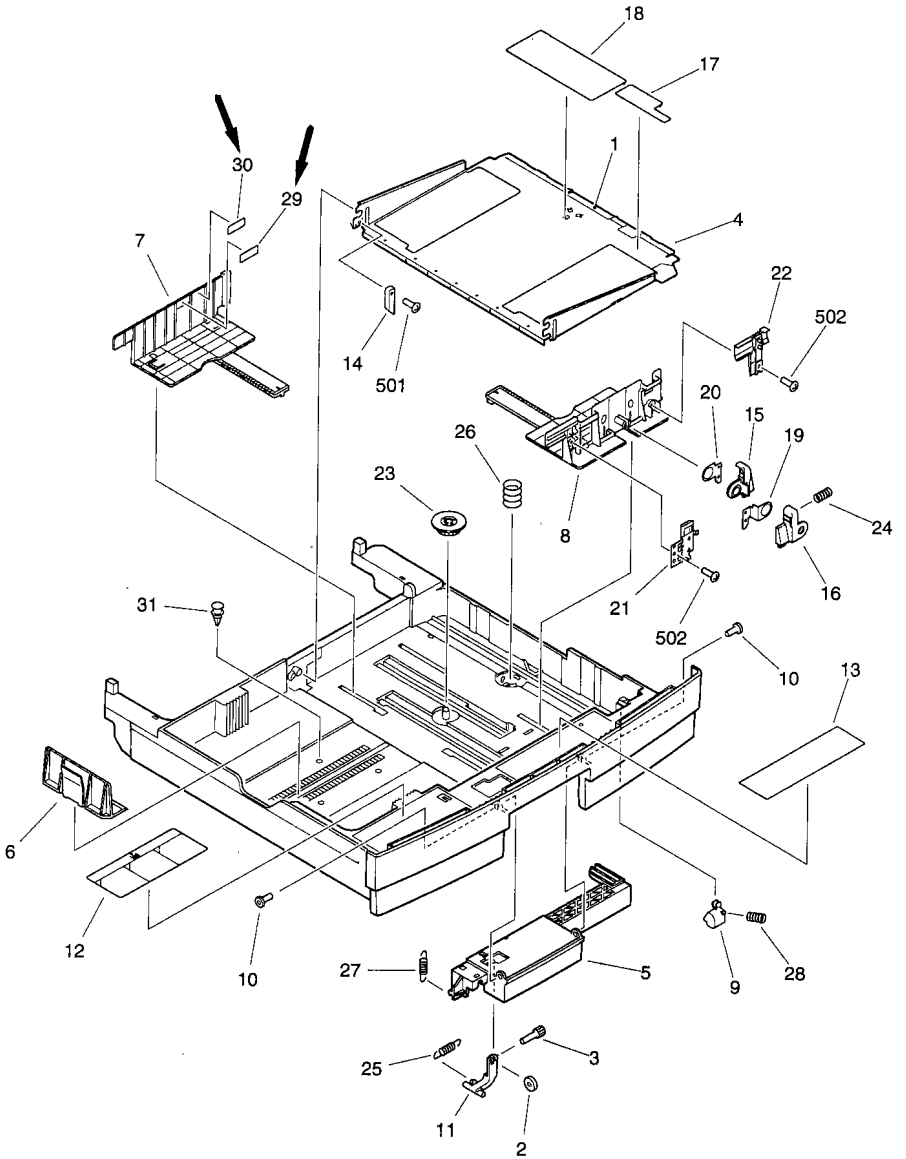
FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
290 -	FG5 - 6411 - 000		1	DF DRIVE ASSEMBLY DF駆動部	NP6012F/6212
1	FA5 - 2864 - 020		3	RETAINING, RING トメワ	
2	FB3 - 3371 - 000		1	MOUNT, MOTOR モータ取り付け台	
3	FB3 - 3373 - 000		1	ROLLER, PAPER PICK-UP 給紙ローラ	
4	FB3 - 3374 - 000		1	SHAFT, PICK-UP ROLLER ローラ軸	
5	FB3 - 3377 - 000		1	SUPPORT, REGIST. SHAFT レジスト軸支え	
6	FB3 - 3378 - 000		1	RING, CHANGE チェンジ リング	
7	FB3 - 3400 - 000		1	RING, E E リング	
8	FF3 - 1070 - 000		1	CABLE, GROUNDING アース線	
9	FF5 - 4680 - 000		1	PLATE, DRIVE 駆動板	
10	FF5 - 4681 - 000		1	PLATE, CHANGE チェンジ プレート	
11	FF5 - 4682 - 000		1	PLATE, TORQUE PAD トルク パッド板	
11A	FB3 - 3375 - 000		1	PAD, TORQUE トルク パッド	
12	FG2 - 7468 - 000		1	CABLE, MOTOR モータ束線	J3,103,104
13	FH6 - 1237 - 000		1	STEPPING MOTOR, DC24V ステッピング モータ	M1 J103
14	FH6 - 1238 - 000		1	MOTOR, DC24V DCモータ	M2 J104
15	FS1 - 1190 - 000		2	BUSHING ブッシング	
16	FS5 - 3457 - 000		1	GEAR, 14T/44T 14T/44T ギア	
17	FS6 - 0613 - 000		1	GEAR, 40T 40T ギア	
18	FS6 - 0616 - 000		1	GEAR, CAM, 44T 44T カム ギア	
19	FS6 - 0617 - 000		1	GEAR, PICK-UP, 44T 44T 給紙ギア	
20	FS6 - 0618 - 000		1	GEAR, 16T/64T 16T/64T ギア	
21	XD9 - 0136 - 000		1	RING, E E リング	
22	XF9 - 0350 - 000		1	BELT, TIMING タイミング ベルト	
23	XF9 - 0563 - 000		1	BELT, TIMING タイミング ベルト	
501	XB1 - 2260 - 309		2	SCREW,MACH.,TRUSS HEAD,M2.6X3 バインド ネジ	
502	XB1 - 2400 - 609		1	SCREW,MACH.,TRUSS HEAD,M4X6 バインド ネジ	
503	XB1 - 2402 - 009		2	SCREW,MACH.,TRUSS HEAD,M4X20 バインド ネジ	
504	XB2 - 7400 - 607		1	SCREW,W/WASHER,M4X6 バネツキ バインド ネジ	
505	XD2 - 1100 - 502		1	RING,E E リング	

COPYRIGHT © 1995 CANON INC.

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
290 − 506	XD3 − 2200 − 142		1	PIN,DOWEL ヘイコウ ピン	

COPYRIGHT © 1995 CANON INC
CANON NP6012/6012F/6212 REV.0 OCT.1995 PRINTED IN JAPAN (IMPRIME AU JAPON)

FIGURE 300 CASSETTE
カセット



COPYRIGHT © 1995 CANON INC.
CANON NP6012/6012F/6212 REV.1-2 NOV. 1996 PRINTED IN JAPAN (IMPRIME AU JAPON)

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
300 -	NPN		RF	CASSETTE カセット	
1	FB2 - 2559 - 000		1	SHEET 中板シート	
2	FB2 - 4863 - 000		1	ROLLER, HOOK フック コロ	
3	FB2 - 4864 - 000		1	SHAFT, ROLLER フック コロ軸	
4	FB2 - 5402 - 000		1	PLATE, PAPER LIFTING 中板	
5	FB2 - 5403 - 020		1	LATCH, HANDLE 把手	
6	FB2 - 5404 - 000		1	PLATE, SIZE, END 後端規制板	
7	FB2 - 5405 - 000		1	PLATE, SIZE, SIDE, REAR サイド規制板（後）	
8	FB2 - 5406 - 020		1	PLATE, SIZE, SIDE, FRONT サイド規制板（前）	
9	FB2 - 5407 - 000		1	CATCH, PAPER, LIFTING 中板押えコマ	
10	FB2 - 5408 - 000		2	PIN, LEVER レバー ピン	
11	FB2 - 5410 - 000		1	HOOK, LATCH 把手フック	
12	FB2 - 5409 - 000		1	LABEL, PLATE, LIFTING 中板ラベル	NEW
	FB2 - 5411 - 000		1	LABEL, "INSTRUCTION" 用紙補給ラベル	OLD
13	FB2 - 5412 - 000		1	LABEL, "PAPER WARNING" 用紙はみだし注意ラベル	
14	FB2 - 5413 - 000		1	BRUSH, GROUNDING 除電ブラシ	
15	FB2 - 5414 - 000		1	BLOCK, SIDE STOP, RIGHT サイド ストッパ（右）	
16	FB2 - 5415 - 000		1	BLOCK, SIDE STOP, LEFT サイド ストッパ（左）	
17	FB2 - 5420 - 000		1	LABEL, "PAPER SIZE" 用紙サイズ ラベル	
18	FB2 - 5432 - 000		1	LABEL, "WARNING, PAPER SET" 用紙セット注意ラベル	OLD
19	FB2 - 6043 - 000		1	PLATE, CATCH, 1 つまみ板（1）	
20	FB2 - 6044 - 000		1	PLATE, CATCH, 2 つまみ板（2）	
21	FF5 - 2903 - 000		1	SPRING, LEAF, LARGE サイド押えバネ（大）	
22	FF5 - 2904 - 000		1	SPRING, LEAF, SMALL サイド押えバネ（小）	
23	FS5 - 0904 - 000		1	GEAR, 20T 20T ギア	
24	FS5 - 2650 - 000		1	SPRING, COMPRESSION アッシュク バネ	
25	FS5 - 2780 - 000		1	SPRING, TENSION ヒッパリ バネ	
26	FS5 - 2781 - 020		1	SPRING, COMPRESSION アッシュク バネ	
27	FS5 - 2782 - 000		1	SPRING, TENSION ヒッパリ バネ	
28	FS5 - 2810 - 000		1	SPRING, COMPRESSION アッシュク バネ	

COPYRIGHT © 1995 CANON INC.

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
300 — 29	FS6 — 8347 — 000		1	LABEL, "WARNING, PAPER HEIGHT" 積載制限ラベル	
30	FS6 — 8401 — 000		1	LABEL, "WARNING, PAPER HEIGHT" 積載制限補助ラベル	
31	XZ9 — 0422 — 000		1	SUPPORT, STOP ストッパ	
501	XB1 — 2300 — 407		1	SCREW,MACH.,TRUSS HEAD,M3X4 バインド ネジ	
502	XB4 — 7300 — 509		2	SCREW,TAPPING,TRUSS HEAD,M3X5 バインド タッピン ネジ	

COPYRIGHT © 1995 CANON INC.
CANON NP6012/6012F/6212 REV.0-2 NOV. 1996 PRINTED IN JAPAN (IMPRIME AU JAPON)

FIGURE 340 PAPER PICK-UP ROLLER ASSEMBLY (CASSETTE)
給紙ローラ部（カセット）

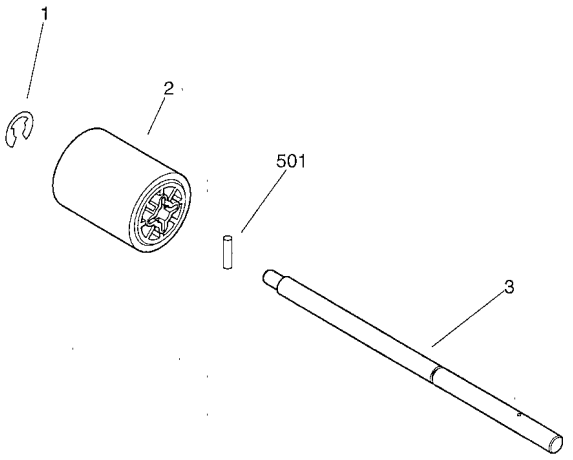
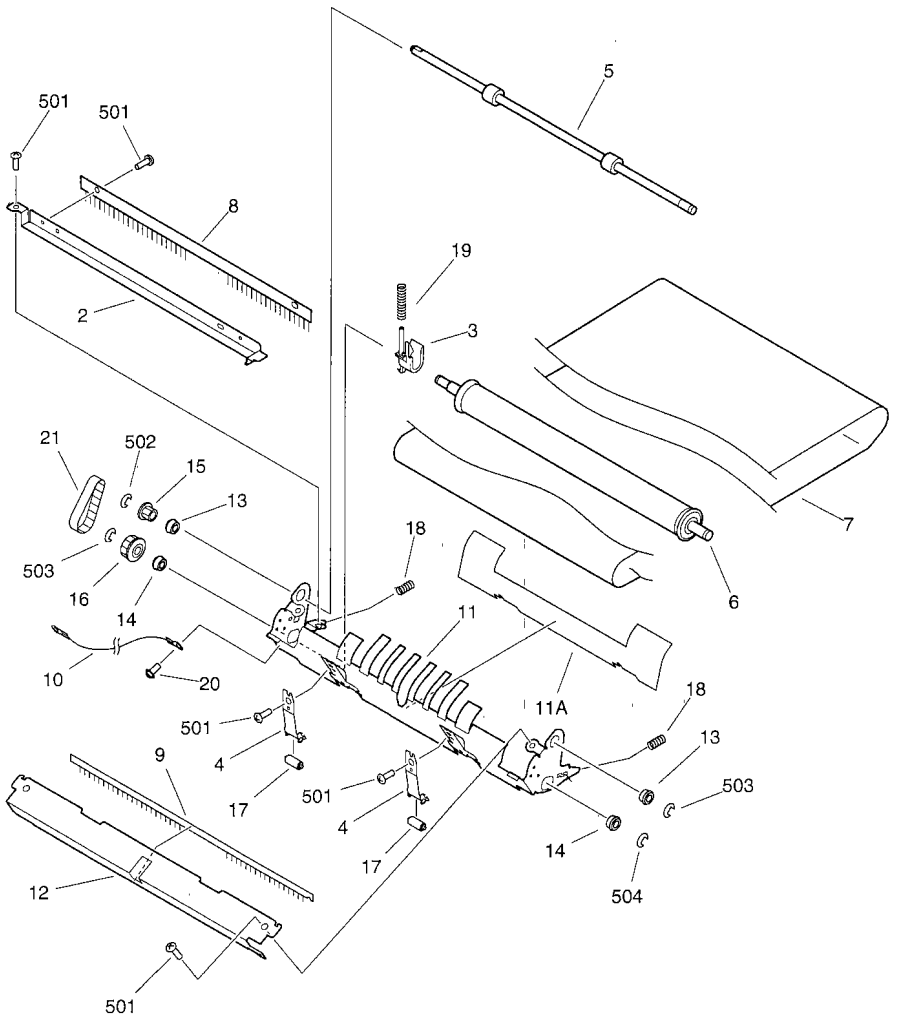


FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
340 -	FG5 - 3531 - 000		1	PICK-UP ROLLER ASSEMBLY キュウシ ローラ ブ	CASSETTE
1	FA4 - 1159 - 000		1	RING, RETAINING トメワ	
2	FB1 - 8581 - 000		1	ROLLER ローラ	
3	FB2 - 5387 - 000		1	SHAFT, CASSETTE ROLLER カセット ローラ ジク	
501	XD3 - 2160 - 142		1	PIN,DOWEL ヘイコウ ピン	

COPYRIGHT © 1995 CANON INC.

FIGURE 355 DF DELIVERY ASSEMBLY (NP6012F/6212)
DF排紙部（NP6012F／6212）

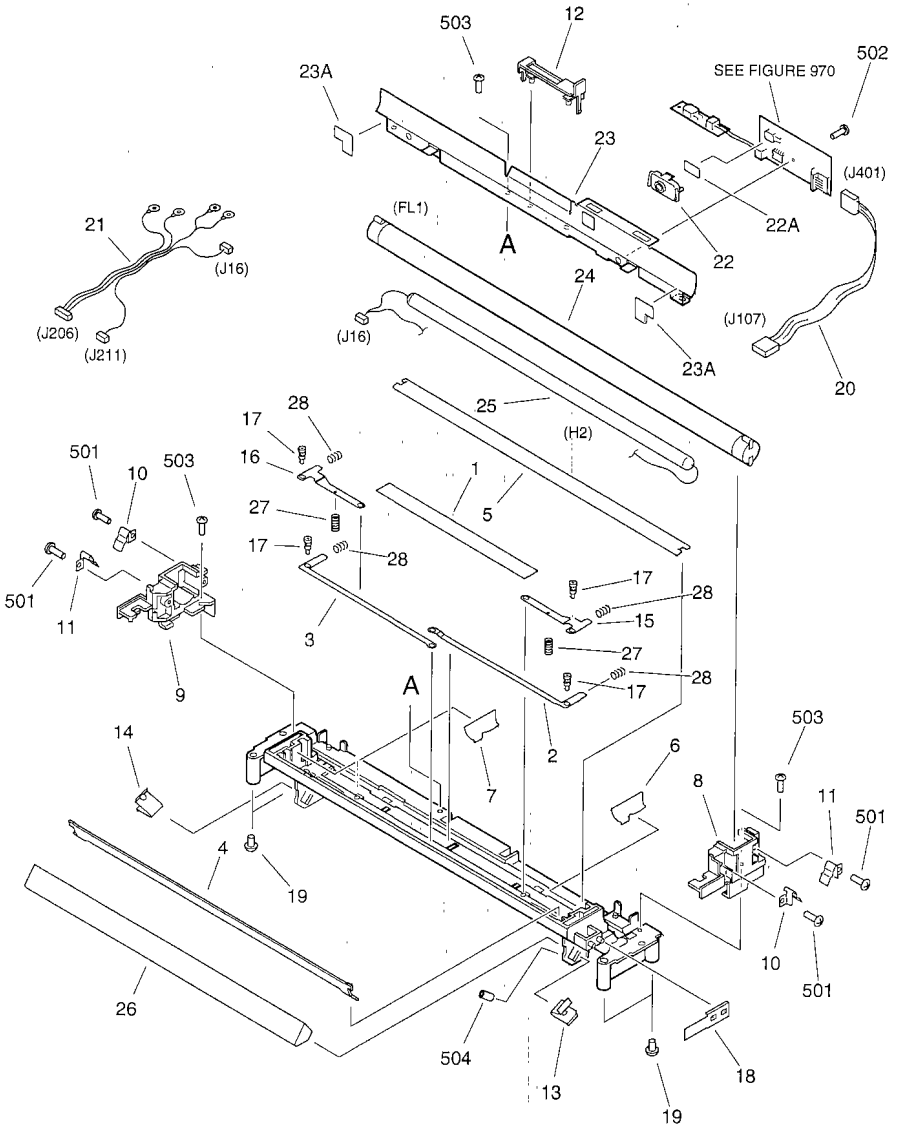


COPYRIGHT © 1995 CANON INC.
CANON NP6012/6012F/6212 REV.0 OCT. 1995 PRINTED IN JAPAN [IMPRIME AU JAPON]

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
355 –	FG5 – 6413 – 000		1	DF DELIVERY ASSEMBLY DF排紙部	NP6012F/6212
1	FA5 – 2864 – 020		1	RETAINING, RING トメワ	
2	FB3 – 3379 – 000		1	CROSSMEMBER, ELIMINATOR 除電針ステイ	
3	FB3 – 3382 – 000		1	SUPPORT, PAPER JUMP GUIDE ジャンプ台押え	
4	FB3 – 3383 – 000		2	PLATE, ROLLER PRESSURE コロ加圧板	
5	FB3 – 3385 – 000		1	ROLLER, PAPER DELIVERY 排紙ローラ	
6	FB3 – 3386 – 000		1	ROLLER, PAPER FEED 排紙搬送ローラ	
7	FB3 – 3387 – 000		1	BELT, DOCUMENT FEED 搬送ベルト	
8	FB3 – 3388 – 000		1	ELIMINATOR, STATIC CHARGE, 1 除電針 (1)	
9	FB3 – 3389 – 000		1	ELIMINATOR, STATIC CHARGE, 2 除電針 (2)	
10	FF3 – 1071 – 000		1	CABLE, GROUNDING アース線	
11	FF5 – 4685 – 000		1	FRAME, PAPER DELIVERY 排紙フレーム	
11A	FB3 – 3381 – 000		1	SHEET, JUMP ジャンプ シート	
12	FF5 – 4686 – 000		1	PLATE, DELIVERY GUIDE 排紙ガイド板	
13	FS1 – 1205 – 000		3	BUSHING ブッシング	
14	FS1 – 1341 – 000		2	BUSHING ブッシング	
15	FS5 – 3459 – 000		1	PULLEY, 14T 14T プーリ	
16	FS5 – 3460 – 000		1	PULLEY, 26T 26T プーリ	
17	FS5 – 6455 – 000		2	ROLLER, 2 コロ (2)	
18	FS6 – 2374 – 000		2	SPRING, COMPRESSION アッシュク バネ	
19	FS6 – 2375 – 000		1	SPRING, COMPRESSION アッシュク バネ	
20	XA9 – 0633 – 000		1	SCREW, RS, M4X8 RS タイト ネジ	
21	XF9 – 0562 – 000		1	BELT, TIMING タイミング ベルト	
501	XB4 – 7400 – 609		AR	SCREW,TAPPING,TRUSS HEAD,M4X6 バインド タッピン ネジ	
502	XD2 – 1100 – 322		1	RING,E E リング	
503	XD2 – 1100 – 502		2	RING,E E リング	
504	XD2 – 1100 – 642		1	RING,E E リング	

COPYRIGHT © 1995 CANON INC.

FIGURE 400 MIRROR ASSEMBLY 1
第1ミラー部

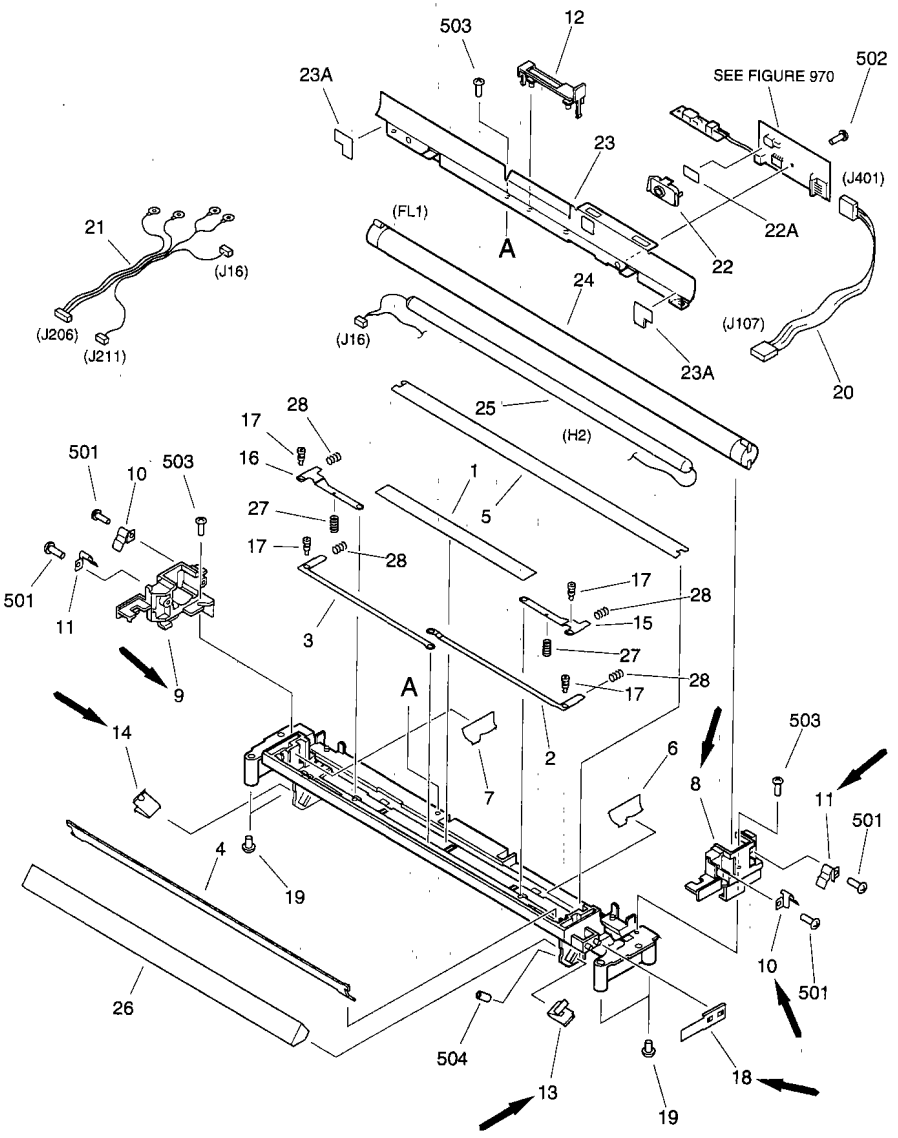


COPYRIGHT © 1995 CANON INC.
CANON NP6012/6012F/6212 REV.1 OCT. 1995 PRINTED IN JAPAN [IMPRIME AU JAPON]

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
355 –	FG5 – 6413 – 000		1	DF DELIVERY ASSEMBLY DF排紙部	NP6012F/6212
1	FA5 – 2864 – 020		1	RETAINING, RING トメワ	
2	FB3 – 3379 – 000		1	CROSSMEMBER, ELIMINATOR 除電針ステイ	
3	FB3 – 3382 – 000		1	SUPPORT, PAPER JUMP GUIDE ジャンプ台押え	
4	FB3 – 3383 – 000		2	PLATE, ROLLER PRESSURE コロ加圧板	
5	FB3 – 3385 – 000		1	ROLLER, PAPER DELIVERY 排紙ローラ	
6	FB3 – 3386 – 000		1	ROLLER, PAPER FEED 排紙搬送ローラ	
7	FB3 – 3387 – 000		1	BELT, DOCUMENT FEED 搬送ベルト	
8	FB3 – 3388 – 000		1	ELIMINATOR, STATIC CHARGE, 1 除電針 (1)	
9	FB3 – 3389 – 000		1	ELIMINATOR, STATIC CHARGE, 2 除電針 (2)	
10	FF3 – 1071 – 000		1	CABLE, GROUNDING アース線	
11	FF5 – 4685 – 000		1	FRAME, PAPER DELIVERY 排紙フレーム	
11A	FB3 – 3381 – 000		1	SHEET, JUMP ジャンプ シート	
12	FF5 – 4686 – 000		1	PLATE, DELIVERY GUIDE 排紙ガイド板	
13	FS1 – 1205 – 000		3	BUSHING ブッシング	
14	FS1 – 1341 – 000		2	BUSHING ブッシング	
15	FS5 – 3459 – 000		1	PULLEY, 14T 14T プーリ	
16	FS5 – 3460 – 000		1	PULLEY, 26T 26T プーリ	
17	FS5 – 6455 – 000		2	ROLLER, 2 コロ (2)	
18	FS6 – 2374 – 000		2	SPRING, COMPRESSION アッシュク バネ	
19	FS6 – 2375 – 000		1	SPRING, COMPRESSION アッシュク バネ	
20	XA9 – 0633 – 000		1	SCREW, RS, M4X8 RS タイト ネジ	
21	XF9 – 0562 – 000		1	BELT, TIMING タイミング ベルト	
501	XB4 – 7400 – 609		AR	SCREW,TAPPING,TRUSS HEAD,M4X6 バインド タッピン ネジ	
502	XD2 – 1100 – 322		1	RING,E E リング	
503	XD2 – 1100 – 502		2	RING,E E リング	
504	XD2 – 1100 – 642		1	RING,E E リング	

COPYRIGHT © 1996 CANON INC.

FIGURE 400 MIRROR ASSEMBLY 1
第1ミラー部



COPYRIGHT © 1995 CANON INC.
CANON NP6012/6012F/6212 REV. 1-1 NOV. 1996 PRINTED IN JAPAN (IMPRIME AU JAPON)

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
400 –	NPN		RF	MIRROR ASSEMBLY 1 第一ミラー部	
1	FA9 – 3065 – 000		1	SHEET, 5 フレア シート (5)	
2	FB2 – 4650 – 000		1	SHUTTER, FRONT シャッタ (マエ)	
3	FB2 – 4651 – 000		1	SHUTTER, REAR シャッタ (ウシロ)	
4	FB2 – 4652 – 000		1	REFLECTOR, 1 反射傘 (1)	
5	FB2 – 4653 – 000		1	REFLECTOR, 2 反射傘 (2)	
6	FB2 – 4654 – 000		1	PLATE, SIDE REFLECTOR, FRONT サイド反射板 (前)	
7	FB2 – 4655 – 000		1	PLATE, SIDE REFLECTOR, REAR サイド反射板 (後)	
➡ 8	FB2 – 4656 – 030		1	MOUNT, LAMP, FRONT ランプ台 (前)	
➡ 9	FB2 – 4657 – 030		1	MOUNT, LAMP, REAR ランプ台 (後)	
➡ 10	FB2 – 4658 – 020		2	SPRING, LEAF, 1 板バネ (1)	
➡ 11	FB2 – 4659 – 020		2	SPRING, LEAF, 2 板バネ (2)	
12	FB2 – 4660 – 000		1	COVER, SENSOR センサ カバー	
➡ 13	FB2 – 4662 – 020		1	SPRING, LEAF, FRONT 板バネ (前)	
➡ 14	FB2 – 4663 – 020		1	SPRING, LEAF, REAR 板バネ (後)	
15	FB2 – 4664 – 000		1	SHUTTER, SUB, FRONT ホジョ シャッタ (マエ)	
16	FB2 – 4665 – 000		1	SHUTTER, SUB, REAR ホジョ シャッタ (ウシロ)	
17	FB2 – 4666 – 000		4	SCREW, ADJUSTING 調整ネジ	
➡ 18	FB2 – 4667 – 020		1	FLAG フラッグ	
19	FB2 – 4669 – 000		4	BLOCK, RAIL SLIDING レール スライダ	
20	FF2 – 9729 – 000		1	CABLE, MIRROR UNIT 1 SENSOR 第1ミラー台センサ束線	J107,401
21	FF3 – 0480 – 000		1	CABLE, MIRROR UNIT 1 FC 第1ミラー台FC束線	J16,206,211
22	FF5 – 2889 – 000		1	COVER, SENSOR センサ カバー	
22A	FB1 – 0715 – 000		1	FILTER, LIGHT DENSITY 調光フィルタ	
23	FF5 – 3924 – 000		1	PLATE, HEATER ヒータ板	
23A	FB3 – 0860 – 000		2	TAPE, EDGE エッジ テープ	
24	FH7 – 3272 – 000		1	LAMP, FLUORESCENT ケイコウトウ	FL1
25	FH7 – 4474 – 000		1	HEATER ヒータ	115V H2 J16
	FH7 – 4475 – 000		1	HEATER ヒータ	220/240V H2 J16
26	FN5 – 4018 – 000		1	MIRROR, 1 第1ミラー	

COPYRIGHT © 1995 CANON INC.

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
400 - 27	FS5 - 2032 - 000		4	SPRING, COMPRESSION アッシュク バネ	
28	FS5 - 2815 - 000		4	SPRING, COMPRESSION アッシュク バネ	
501	XB1 - 2300 - 609		4	SCREW,MACH.,TRUSS HEAD,M3X6 バインド ネジ	
502	XB2 - 8300 - 607		1	SCREW,W/WASHER,M3X6 バネツキ ネジ	
503	XB4 - 7300 - 809		3	SCREW,TAPPING,TRUSS HEAD,M3X8 バインド タッピン ネジ	
504	XB6 - 2300 - 808		1	SETSCREW,M3X8 ロッカク アナツキ トメネジ	

COPYRIGHT © 1995 CANON INC.
CANON NP6012/6012F/6212 REV. 1-1 NOV. 1996 PRINTED IN JAPAN (IMPRIME AU JAPON)

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
400 -	NPN		RF	MIRROR ASSEMBLY 1 第一ミラー部	
1	FA9 — 3065 — 000		1	SHEET, 5 フレア シート (5)	
2	FB2 — 4650 — 000		1	SHUTTER, FRONT シャッタ (マエ)	
3	FB2 — 4651 — 000		1	SHUTTER, REAR シャッタ (ウシロ)	
4	FB2 — 4652 — 000		1	REFLECTOR, 1 ハンシャ ガサ (1)	
5	FB2 — 4653 — 000		1	REFLECTOR, 2 ハンシャ ガサ (2)	
6	FB2 — 4654 — 000		1	PLATE, SIDE REFLECTOR, FRONT サイド 反射板 (前)	
7	FB2 — 4655 — 000		1	PLATE, SIDE REFLECTOR, REAR サイド 反射板 (後)	
8	FB2 — 4656 — 000		1	MOUNT, LAMP, FRONT ランプ台 (前)	
9	FB2 — 4657 — 000		1	MOUNT, LAMP, REAR ランプ台 (後)	
10	FB2 — 4658 — 000		2	SPRING, LEAF, 1 板バネ (1)	
11	FB2 — 4659 — 000		2	SPRING, LEAF, 2 板バネ (2)	
12	FB2 — 4660 — 000		1	COVER, SENSOR センサ カバー	
13	FB2 — 4662 — 000		1	SPRING, LEAF, FRONT 板バネ (前)	
14	FB2 — 4663 — 000		1	SPRING, LEAF, REAR 板バネ (後)	
15	FB2 — 4664 — 000		1	SHUTTER, SUB, FRONT ホジョ シャッタ (マエ)	
16	FB2 — 4665 — 000		1	SHUTTER, SUB, REAR ホジョ シャッタ (ウシロ)	
17	FB2 — 4666 — 000		4	SCREW, ADJUSTING チョウセイ ネジ	
18	FB2 — 4667 — 000		1	FLAG フラッグ	
19	FB2 — 4669 — 000		4	BLOCK, RAIL SLIDING レール スライダ	
20	FF2 — 9729 — 000		1	CABLE, MIRROR UNIT 1 SENSOR 第1ミラー台センサ束線	J107,401
21	FF3 — 0480 — 000		1	CABLE, MIRROR UNIT 1 FC 第1ミラー台FC束線	J16,206,211
22	FF5 — 2889 — 000		1	COVER, SENSOR センサ カバー	
22A	FB1 — 0715 — 000		1	FILTER, LIGHT DENSITY 調光フィルタ	
23	FF5 — 3924 — 000		1	PLATE, HEATER ヒータ板	
23A	FB3 — 0860 — 000		2	TAPE, EDGE エッジ テープ	
24	FH7 — 3272 — 000		1	LAMP, FLUORESCENT ケイコウトウ	FL1
25	FH7 — 4474 — 000		1	HEATER ヒータ	115V H2 J16
	FH7 — 4475 — 000		1	HEATER ヒータ	220/240V H2 J16
26	FN5 — 4018 — 000		1	MIRROR, 1 ダイ 1 ミラー	

COPYRIGHT © 1995 CANON INC.

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
400 - 27	FS5 - 2032 - 000		4	SPRING, COMPRESSION アッシュク バネ	
28	FS5 - 2815 - 000		4	SPRING, COMPRESSION アッシュク バネ	
501	XB1 - 2300 - 609		4	SCREW,MACH.,TRUSS HEAD,M3X6 バインド ネジ	
502	XB2 - 8300 - 607		1	SCREW,W/WASHER,M3X6 バネツキ バインド ネジ	
503	XB4 - 7300 - 809		3	SCREW,TAPPING,TRUSS HEAD,M3X8 バインド タッピン ネジ	
504	XB6 - 2300 - 808		1	SETSCREW,M3X8 ロッカク アナツキ トメネジ	

COPYRIGHT © 1995 CANON INC.
CANON NP6012/6012F/6212 REV.1 OCT. 1995 PRINTED IN JAPAN [IMPRIME AU JAPON]

FIGURE 401 MIRROR ASSEMBLY 2
第2ミラー部

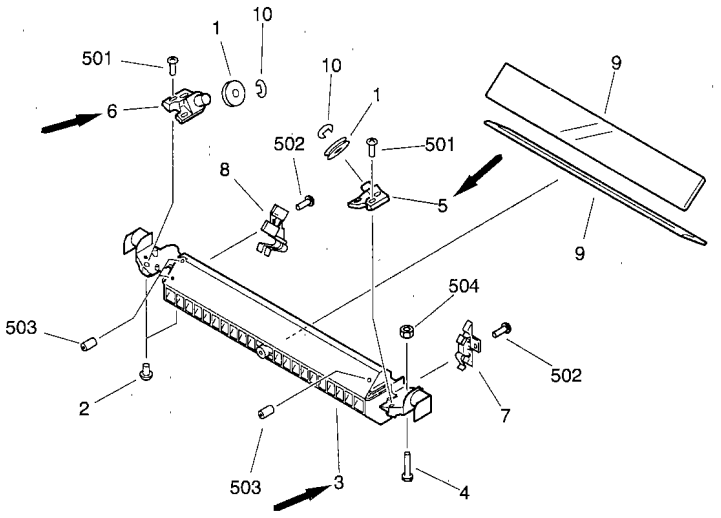


FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
401 –	NPN		RF	MIRROR ASSEMBLY 2 第2ミラー部	
1	FB2 – 4616 – 000		2	PULLEY プーリ	
2	FB2 – 4669 – 000		2	BLOCK, RAIL SLIDING レール スライダ	
➡ 3	FB2 – 4675 – 020	N	1	MOUNT, MIRROR, 2 ダイ 2 ミラー ダイ	
4	FB2 – 4676 – 000		1	SCREW, ADJUSTING, M4 調整ネジ	
➡ 5	FB2 – 4677 – 020		1	PLATE, WIRE POSITIONING, FRONT ワイヤ イチ チョウセイ バン (マエ)	
➡ 6	FB2 – 4678 – 020		1	PLATE, WIRE POSITIONING, REAR ワイヤ イチ チョウセイ バン (ウシロ)	
7	FF5 – 2899 – 000		1	HOLDER, MIRROR, FRONT ミラー オサエ バネ (マエ)	
8	FF5 – 2900 – 000		1	HOLDER, MIRROR, REAR ミラー オサエ バネ (ウシロ)	
9	FN5 – 4019 – 000		2	MIRROR, 2/3 第2/3ミラー	
10	XD9 – 0136 – 000		2	RING,E E リング	
501	XB4 – 7300 – 809		2	SCREW,TAPPING,TRUSS HEAD,M3X8 バインド タッピン ネジ	
502	XB4 – 7301 – 009		2	SCREW,TAPPING,TRUSS HEAD,M3X10 バインド タッピン ネジ	
503	XB6 – 2300 – 808		3	SETSCREW,M3X8 ロッカク アナツキ トメネジ	
504	XB7 – 2200 – 409		1	NUT,HEX,M4 ロッカク ナット	

COPYRIGHT © 1995 CANON INC.
CANON NP6012/6012F/6212 REV. 1-1 NOV. 1996 PRINTED IN JAPAN (IMPRIME AU JAPON)

FIGURE 402 ZOOM MIRROR ASSEMBLY
ズームミラー部

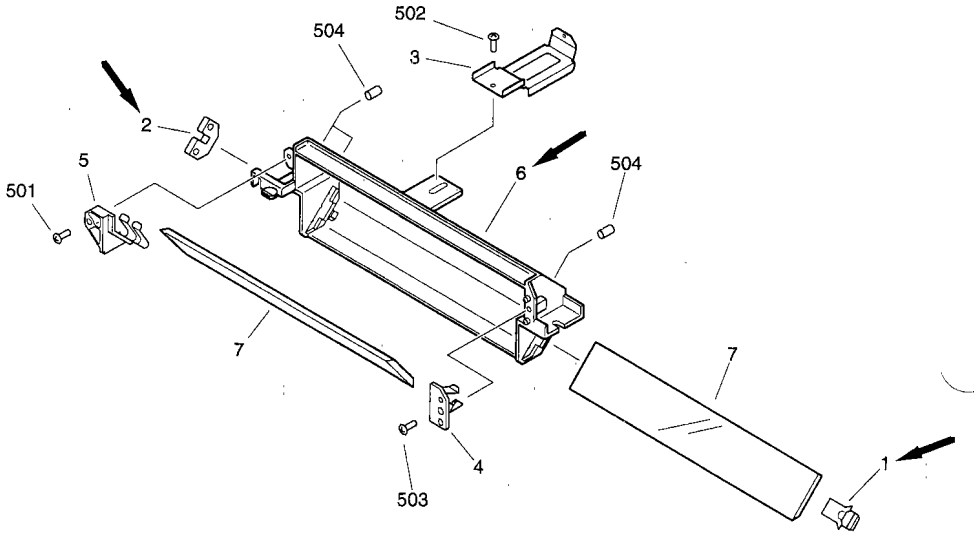


FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
402 –	NPN		RF	ZOOM MIRROR ASSEMBLY ズームミラー部	
➡ 1	FB2 – 4694 – 020		1	SPRING, LEAF, MIRROR 5, FRONT ダイ 5 ミラー バネ (マエ)	
➡ 2	FB2 – 4695 – 020		1	SPRING, LEAF, MIRROR 5, REAR ダイ 5 ミラー バネ (ウシロ)	
3	FB2 – 4696 – 020		1	PLATE, ADJUSTING 物流用調整板	
4	FF5 – 2901 – 000		1	SPRING, LEAF, MIRROR 4, FRONT ダイ 4 ミラー バネ (マエ)	
5	FF5 – 2902 – 000		1	SPRING, LEAF, MIRROR 4, REAR ダイ 4 ミラー バネ (ウシロ)	
➡ 6	FF5 – 2905 – 020		1	MOUNT, ZOOM MIRROR ズーム ミラー ダイ	
7	FN5 – 4020 – 000		2	MIRROR, 4/5 第4/5ミラー	
501	XB1 – 2300 – 609		1	SCREW,MACH.,TRUSS HEAD,M3X6 バインド ネジ	
502	XB1 – 2300 – 809		1	SCREW,MACH.,TRUSS HEAD,M3X8 バインド ネジ	
503	XB4 – 7300 – 809		1	SCREW,TAPPING,TRUSS HEAD,M3X8 バインド タッピン ネジ	
504	XB6 – 2300 – 808		3	SETSCREW,M3X8 ロッカク アナツキ トメネジ	

COPYRIGHT © 1995 CANON INC.
CANON NP6012/6012F/6212 REV. 1-1 NOV. 1996 PRINTED IN JAPAN [IMPRIME AU JAPON]

FIGURE 401 MIRROR ASSEMBLY 2
第2ミラー部

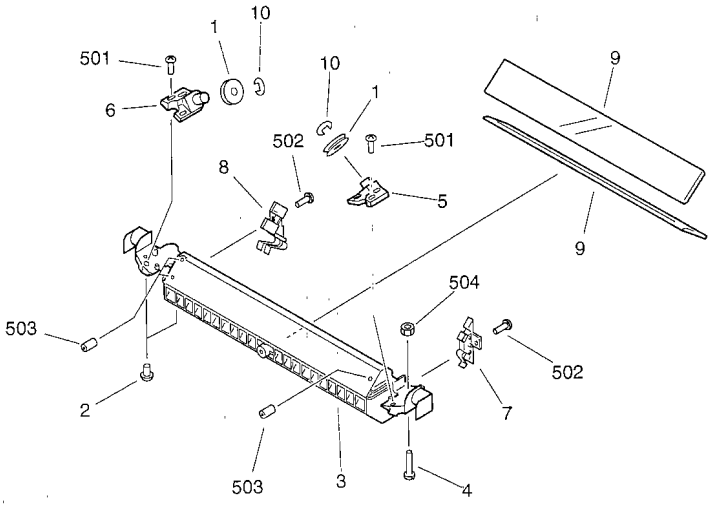


FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
401 –	NPN		RF	MIRROR ASSEMBLY 2 第2ミラー部	
1	FB2 – 4616 – 000		2	PULLEY プーリ	
2	FB2 – 4669 – 000		2	BLOCK, RAIL SLIDING レール スライダ	
3	FB2 – 4675 – 000	N	1	MOUNT, MIRROR, 2 ダイ 2 ミラー ダイ	
4	FB2 – 4676 – 000		1	SCREW, ADJUSTING, M4 チョウセイ ネジ	
5	FB2 – 4677 – 000		1	PLATE, WIRE POSITIONING, FRONT ワイヤ イチ チョウセイ バン (マエ)	
6	FB2 – 4678 – 000		1	PLATE, WIRE POSITIONING, REAR ワイヤ イチ チョウセイ バン (ウシロ)	
7	FF5 – 2899 – 000		1	HOLDER, MIRROR, FRONT ミラー オサエ バネ (マエ)	
8	FF5 – 2900 – 000		1	HOLDER, MIRROR, REAR ミラー オサエ バネ (ウシロ)	
9	FN5 – 4019 – 000		2	MIRROR, 2/3 ダイ 2/3 ミラー	
10	XD9 – 0136 – 000		2	RING, E E リング	
501	XB4 – 7300 – 809		2	SCREW,TAPPING,TRUSS HEAD,M3X8 バインド タッピン ネジ	
502	XB4 – 7301 – 009		2	SCREW,TAPPING,TRUSS HEAD,M3X10 バインド タッピン ネジ	
503	XB6 – 2300 – 808		3	SETSCREW,M3X8 ロッカク アナツキ トメネジ	
504	XB7 – 2200 – 409		1	NUT,HEX,M4 ロッカク ナット	

COPYRIGHT © 1995 CANON INC.
CANON NP6012/6012F/6212, REV.1 OCT. 1995 PRINTED IN JAPAN [IMPRIME AU JAPON]

FIGURE 402 ZOOM MIRROR ASSEMBLY
ズームミラー部

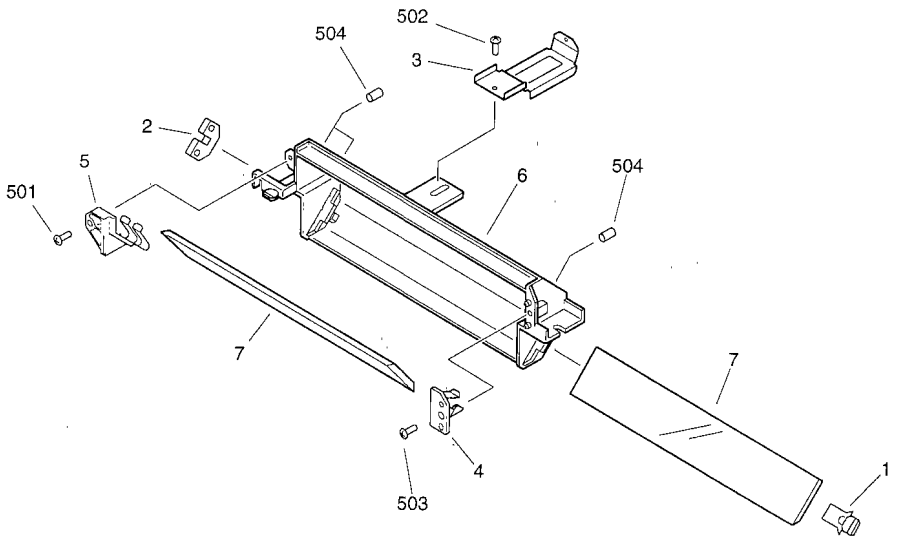
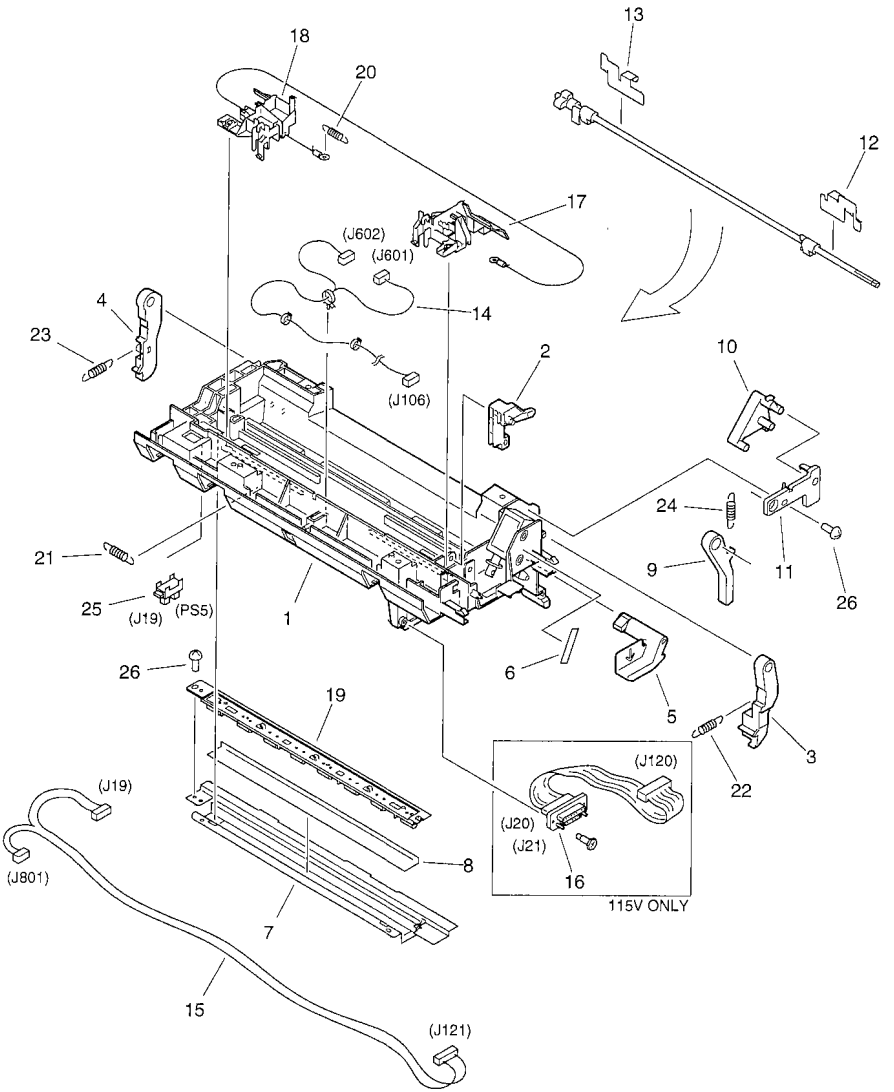


FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
402 –	NPN		RF	ZOOM MIRROR ASSEMBLY ズームミラー部	
1	FB2 – 4694 – 000		1	SPRING, LEAF, MIRROR 5, FRONT ダイ 5 ミラー バネ (マエ)	
2	FB2 – 4695 – 000		1	SPRING, LEAF, MIRROR 5, REAR ダイ 5 ミラー バネ (ウシロ)	
3	FB2 – 4696 – 020		1	PLATE, ADJUSTING 物流用調整板	
4	FF5 – 2901 – 000		1	SPRING, LEAF, MIRROR 4, FRONT ダイ 4 ミラー バネ (マエ)	
5	FF5 – 2902 – 000		1	SPRING, LEAF, MIRROR 4, REAR ダイ 4 ミラー バネ (ウシロ)	
6	FF5 – 2905 – 000		1	MOUNT, ZOOM MIRROR ズーム ミラー ダイ	
7	FN5 – 4020 – 000		2	MIRROR, 4/5 ダイ 4/5 ミラー	
501	XB1 – 2300 – 609		1	SCREW,MACH.,TRUSS HEAD,M3X6 バインド ネジ	
502	XB1 – 2300 – 809		1	SCREW,MACH.,TRUSS HEAD,M3X8 バインド ネジ	
503	XB4 – 7300 – 809		1	SCREW,TAPPING,TRUSS HEAD,M3X8 バインド タッピン ネジ	
504	XB6 – 2300 – 808		3	SETSCREW,M3X8 ロッカク アナツキ トメネジ	

COPYRIGHT © 1995 CANON INC.
CANON NP6012/6012F/6212 REV.1 OCT. 1995 PRINTED IN JAPAN [IMPRIME AU JAPON]

FIGURE 450 BLANK EXPOSURE LAMP ASSEMBLY
ブランク露光部

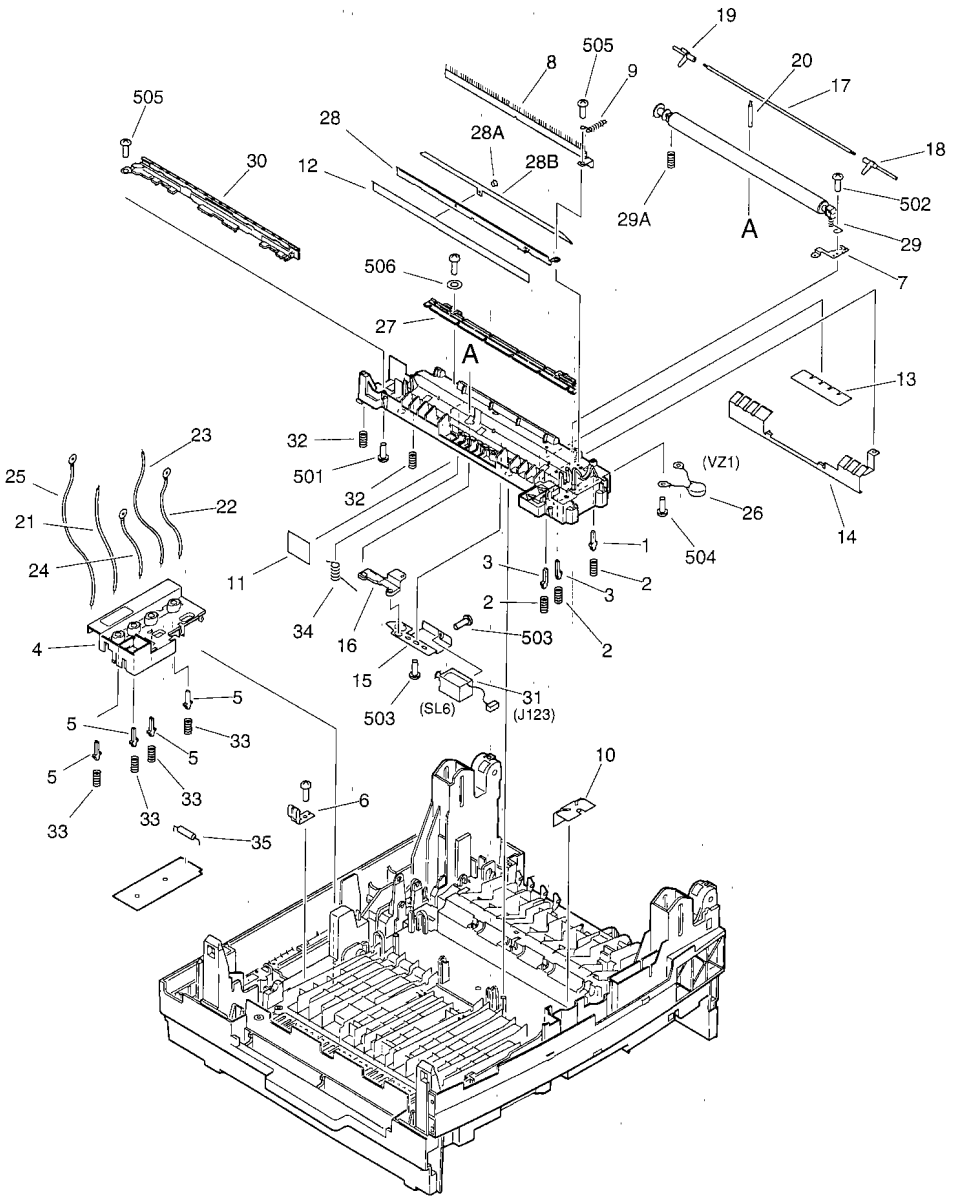


COPYRIGHT © 1995 CANON INC.
CANON NP6012/6012F/6212 REV.1 OCT. 1995 PRINTED IN JAPAN [IMPRIME AU JAPON]

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
450 –	NPN		RF	BLANK EXPOSURE LAMP ASSEMBLY ブランク露光部	
1	FB3 – 0770 – 000		1	HOUSING, BLANK EXPOSURE LAMP ブランク露光　ハウジング	
2	FB3 – 0774 – 000		1	ARM, SOLENOID ソレノイド　アーム	
3	FB3 – 0775 – 000		1	LEVER, PRESSURE, FRONT 加圧レバー（前）	
4	FB3 – 0776 – 000		1	LEVER, PRESSURE, REAR 加圧レバー（後）	
5	FB3 – 0782 – 000		1	HANDLE, PRESSURE 加圧ハンドル	
6	FB3 – 0785 – 000		1	SHEET, INSULATING 絶縁シート	
7	FB3 – 0790 – 000		1	COVER, PRE-CONDITIONING 前露光カバー	
8	FB3 – 0791 – 000		1	FILTER, PRE-CONDITIONING 前露光フィルタ	
9	FB3 – 0805 – 000		1	ARM, FOOL-PROOF フールプルーフ　アーム	
10	FB3 – 0806 – 000		1	TRIGGER, FOOL-PROOF フールプルーフ　トリガ	
11	FB3 – 0807 – 000		1	SUPPORT, FOOL-PROOF ARM アーム支えブロック	
12	FB3 – 0811 – 000		1	SPRING, LEAF, FRONT 板バネ（前）	
13	FB3 – 0815 – 000		1	SPRING, LEAF, REAR 板バネ（後）	
14	FF2 – 9731 – 000		1	CABLE, BLANK EXPOSURE LAMP ブランク　ソクセン	J106,601,602
15	FF3 – 0471 – 000		1	CABLE, EXPO. LAMP/LIMIT SENSOR 前露光ランプ／満検センサ束線	J19,121,801
16	FF3 – 0473 – 000		1	CABLE, PGP PCB UNIT PGP回路基板束線	115V ONLY J20,21,120
17	FF5 – 3901 – 000		1	MOUNT, LAMP, FRONT ランプ台（前）	
18	FF5 – 3902 – 000		1	MOUNT, LAMP, REAR ランプ台（後）	
19	FG5 – 5499 – 000		1	PRE-CONDITIONING LAMP PCB UNIT 前露光回路基板　ユニット	
20	FS5 – 2790 – 000		1	SPRING, TENSION ヒッパリ　バネ	
21	FS6 – 2229 – 000		1	SPRING, TENSION ヒッパリ　バネ	
22	FS6 – 2230 – 000		1	SPRING, TENSION, FRONT ヒッパリ　バネ（前）	
23	FS6 – 2231 – 000		1	SPRING, TENSION, REAR ヒッパリ　バネ（後）	
24	FS6 – 2242 – 000		1	SPRING, TENSION ヒッパリ　バネ	
25	WG8 – 5001 – 000		1	PHOTO-INTERRUPTER, TLP1231 フォトインタラプタ	PS5 J19
26	XA9 – 0650 – 000		2	SCREW, M3X6 ヒラコ　ネジ	

COPYRIGHT © 1995 CANON INC.

FIGURE 530 TRANSFER ASSEMBLY
転写台部



COPYRIGHT © 1995 CANON INC.
CANON NP6012/6012F/6212 REV.1 OCT.1995 PRINTED IN JAPAN (IMPRIME AU JAPON)

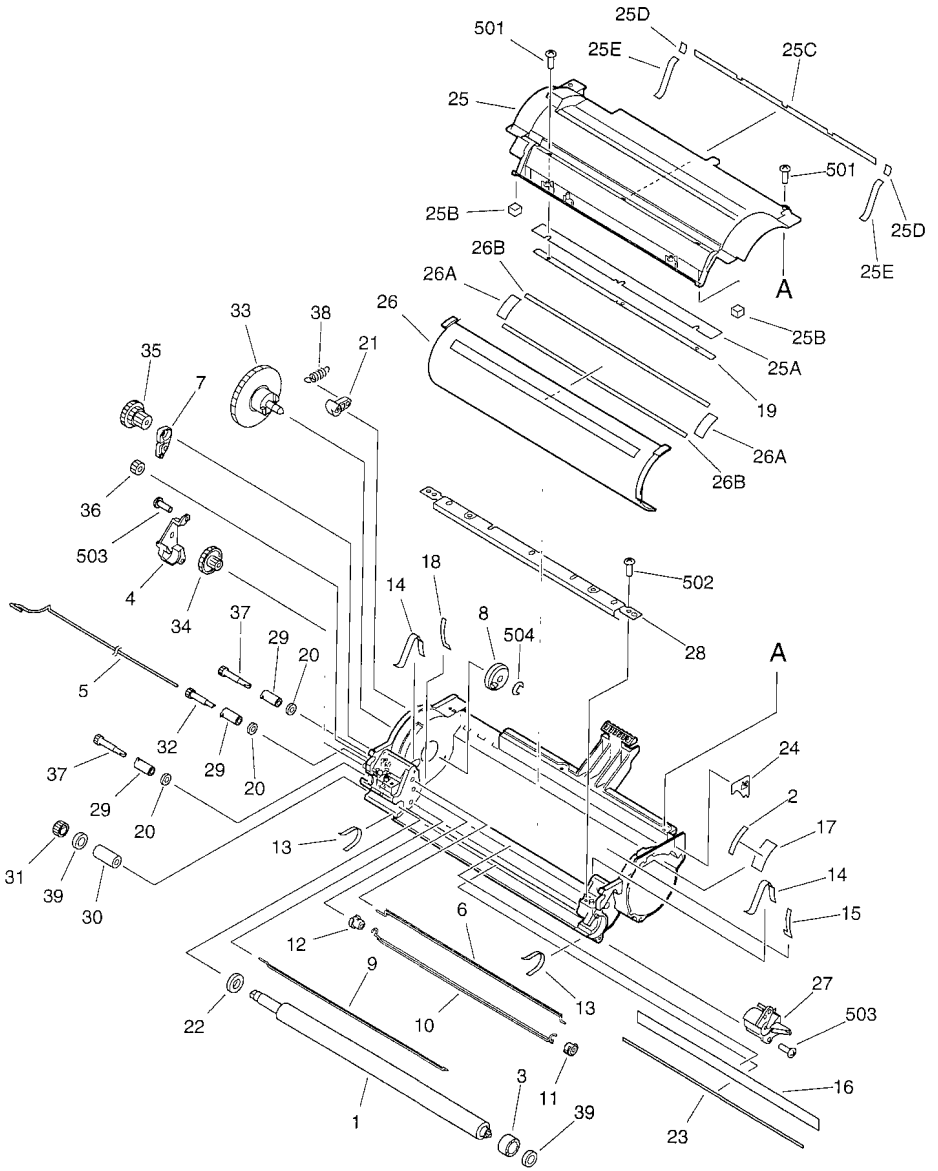
FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
530 -	NPN		RF	TRANSFER ASSEMBLY 転写台部	
1	FB1 - 7425 - 000		1	PIN CONTACT ピン コンタクト	
2	FB1 - 7427 - 000		3	SPRING, COMPRESSION アッシュク バネ	
3	FB1 - 7431 - 000		2	PIN CONTACT ピン コンタクト	
4	FB2 - 4861 - 000		1	HOUSING ハウジング	
5	FB2 - 4862 - 000		4	TERMINAL, LOWER シタ セッテン	
6	FB2 - 4939 - 000		1	SPRING, LEAF イタ バネ	
7	FB2 - 5156 - 000		1	PLATE, TERMINAL セッテン バン	
8	FB2 - 5159 - 000		1	ELIMINATOR, STATIC CHARGE 除電針	
9	FB2 - 5169 - 000		1	SPRING, TENSION ヒッパリ バネ	
10	FB3 - 0582 - 000		1	SHEET, CABLE SUPPORT 束線押えシート	
11	FB3 - 0647 - 000		1	SHEET, GROUNDING AUXILIARY アース保護シート	
12	FB3 - 0648 - 000		1	SHEET, INSULATING 絶縁シート	
13	FB3 - 0673 - 000		1	SHEET, CABLE GUIDE 束線保護シート	
14	FB3 - 0674 - 000		1	SPRING, LEAF 板バネ	
15	FB3 - 0676 - 000		1	PLATE, SOLENOID HOLDER ソレノイド 取り付け板	
16	FB3 - 0677 - 000		1	LEVER, SOLENOID ソレノイド レバー	
17	FB3 - 0765 - 000		1	SHAFT, HOOK フック シャフト	
18	FB3 - 0766 - 000		1	HOOK, SHAFT, FRONT シャフト フック (前)	
19	FB3 - 0767 - 000		1	HOOK, SHAFT, REAR シャフト フック (後)	
20	FB3 - 0768 - 000		1	LEVER, SHAFT シャフト レバー	
21	FF2 - 9762 - 000		1	CABLE, HV, PRIMARY コウアツ ソクセン (1ジ)	
22	FF2 - 9763 - 000		1	CABLE, HV, TRANSFER コウアツ ソクセン (テンシャ)	
23	FF2 - 9764 - 000		1	CABLE, HV, DEVELOPING コウアツ ソクセン (ゲンゾウ)	
24	FF2 - 9765 - 000		1	CABLE, HV, ELIMINATOR コウアツ ソクセン (ジョデン)	
25	FF2 - 9766 - 000		1	WIRE, GROUNDING アース セン	
26	FF2 - 9779 - 000		1	VARISTOR バリスタ	VZ1
27	FF5 - 1673 - 000		1	GUIDE, TRANSFORMER 転写ガイド	
28	FF5 - 2870 - 000		1	ELIMINATOR, STATIC CHARGE カミ ジョデン バン	
28A	FA9 - 3063 - 000		1	BUSHING ブッシング	

COPYRIGHT © 1995 CANON INC.
CANON NP6012/6012F/6212 REV.1 OCT. 1995 PRINTED IN JAPAN (IMPRIME AU JAPON)

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
530 - 28B	FB2 - 5153 - 000		1	FILM, STATIC ELIMINATOR 除電フィルム	
29	FF5 - 2871 - 000		1	ROLLER, TRANSFER テンシャ ローラ	
29A	FS5 - 2335 - 000		1	SPRING, COMPRESSION アッシュク バネ	
30	FF5 - 3713 - 000		1	ELIMINATOR, STATIC CHARGE 除電針	
31	FH7 - 5645 - 000		1	SOLENOID ソレノイド	SL6 J123
32	FS5 - 2774 - 000		4	SPRING, COMPRESSION アッシュク バネ	
33	FS5 - 2784 - 000		4	SPRING, COMPRESSION アッシュク バネ	
34	FS6 - 2243 - 000		1	SPRING, TORSION ネジリ バネ	
35	VR5 - 2650 - 103		4	RESISTOR, 10KOHM, 1/2W テイコウ	
501	XB1 - 2300 - 607		2	SCREW,MACH.,TRUSS HEAD,M3X6 バインド ネジ	
502	XB1 - 2300 - 609		2	SCREW,MACH.,TRUSS HEAD,M3X6 バインド ネジ	
503	XB4 - 7300 - 609		3	SCREW,TAPPING,TRUSS HEAD,M3X6 バインド タッピン ネジ	
504	XB4 - 7300 - 809		5	SCREW,TAPPING,TRUSS HEAD,M3X8 バインド タッピン ネジ	
505	XB4 - 7301 - 009		2	SCREW,TAPPING,TRUSS HEAD,M3X10 バインド タッピン ネジ	
506	XD1 - 2100 - 307		2	WASHER,PLAIN ヒラ ザガネ	

COPYRIGHT © 1995 CANON INC.
CANON NP6012/6012F/6212 REV.1 OCT. 1995 PRINTED IN JAPAN [IMPRIME AU JAPON]

FIGURE 640 DEVELOPING ASSEMBLY
現像器



COPYRIGHT © 1995 CANON INC.
CANON NP6012/6012F/6212 REV.1 OCT. 1995 PRINTED IN JAPAN (IMPRIME AU JAPON)

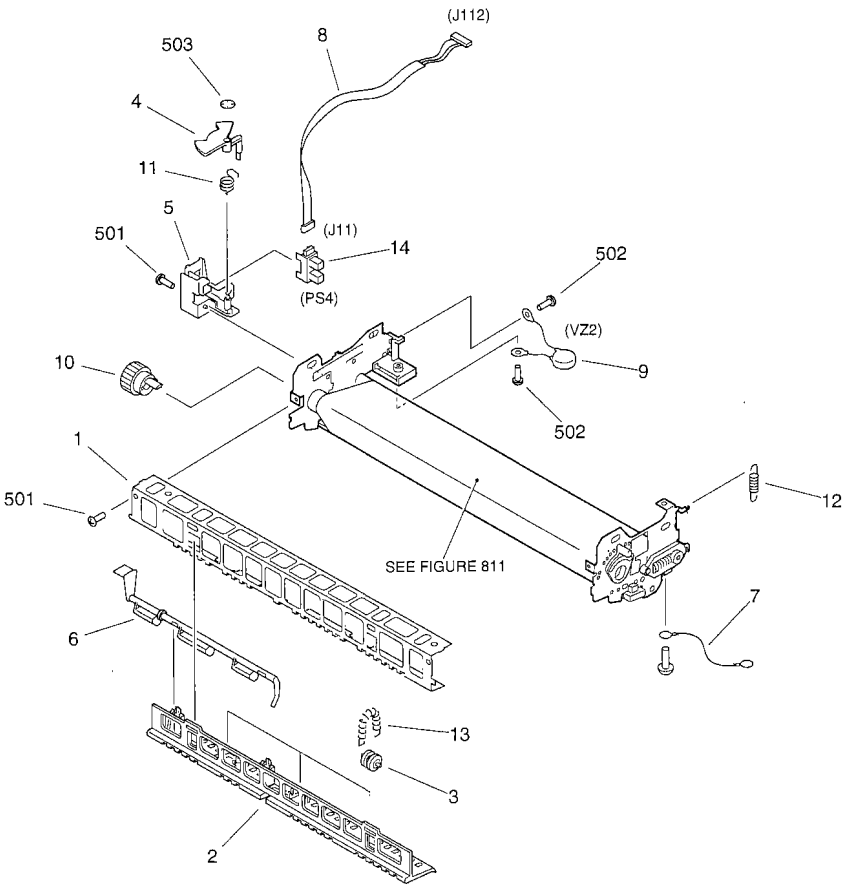
FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
640 -	FG5 — 5465 — 000		1	DEVELOPING ASSEMBLY 現像器	
1	FB3 — 0686 — 000		1	SLEEVE, DEVELOPING 現像スリーブ	
2	FB3 — 0687 — 000		1	SEAL, OPEN GUIDE, 1 開口シール（1）	
3	FB3 — 0688 — 000		1	ROLLER, FRONT コロ（前）	
4	FB3 — 0691 — 000		1	SUPPORT, DEV. CYLINDER, REAR Dブッシュ（後）	
5	FB3 — 0693 — 000		1	ROD, ANTENNA アンテナ棒	
6	FB3 — 0694 — 000		1	ROD, STIRRING, UPPER 撹拌棒（上）	
7	FB3 — 0695 — 000		1	PLATE, GEAR SUPPORT ギア補助板	
8	FB3 — 0696 — 000		1	JOINT, CARTRIDGE DRIVE カートリッジ駆動ジョイント	
9	FB3 — 0697 — 000		1	ROD, STIRRING, LOWER 撹拌棒（下）	
10	FB3 — 0698 — 000		1	ROD, ANTENA STIRRING アンテナ撹拌棒	
11	FB3 — 0700 — 000		1	FLANGE, STIRRING, FRONT 中撹拌フランジ（前）	
12	FB3 — 0701 — 000		1	FLANGE, STIRRING, REAR 中撹拌フランジ,（後）	
13	FB3 — 0711 — 000		2	SEAL, SIDE 端部シール	
14	FB3 — 0713 — 000		2	SEAL, D-S, VERTICAL D—Sシール（縦）	
15	FB3 — 0714 — 000		1	SEAL, D-S, FRONT D—Sシール（前）	
16	FB3 — 0715 — 000		1	SHEET, SHUTTER CLEANING シャッタ　クリーナ　シート	
17	FB3 — 0716 — 000		1	SEAL, OPEN GUIDE, 2 開口シール（2）	
18	FB3 — 0718 — 000		1	SEAL, D-S, REAR D—Sシール（後）	
19	FB3 — 0721 — 000		1	PLATE, SEAL GUIDE シール押え	
20	FB3 — 0722 — 000		3	SEAL, GEAR ギア　シール	
21	FB3 — 0724 — 000		1	ARM, SHUTTER PRESSURE シャッタ加圧アーム	
22	FB3 — 0726 — 000		1	ROLLER, REAR コロ（後）	
23	FB3 — 0730 — 000		1	SEAL, AUXILIARY 補正シール	
24	FB3 — 0788 — 000		1	SEAL, POSITIONING 位置合わせシール	
25	FF5 — 3907 — 000		1	COVER, DEVELOPING 現像容器フタ	
25A	FB3 — 0712 — 000		1	SEAL, L-S L—Sシール	
25B	FB3 — 0719 — 000		2	SEAL, BLADE ブレード　シール	
25C	FB3 — 0725 — 000		1	SEAL, SHUTTER, 1 シャッタ　シール（1）	
25D	FB3 — 0727 — 000		2	SEAL, DEVELOPING COVER 現像フタ　シール	

COPYRIGHT © 1995 CANON INC.
CANON NP6012/6012F/6212; REV.1 OCT. 1995 PRINTED IN JAPAN [IMPRIME AU JAPON]

FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
640 - 25E	FB3 — 0728 — 000		2	SEAL, SHUTTER, 2 シャッタ シール (2)	
26	FF5 — 3908 — 000		1	SHUTTER シャッタ	
26A	FB3 — 0710 — 000		2	SEAL, SHUTTER, VERTICAL シャッタ シール (縦)	
26B	FB3 — 0720 — 000		2	SEAL, SHUTTER, HORIZONTAL シャッタ シール (横)	
27	FF5 — 3910 — 000		1	SUPPORT, DEV. CYLINDER, FRONT Dプッシュ (前)	
28	FG5 — 5466 — 000		1	BLADE UNIT ブレード ユニット	
29	FS5 — 1530 — 000		3	BUSHING ブッシング	
30	FS5 — 6394 — 000		1	SPACER, SLEEVE スリーブ スペーサ	
31	FS6 — 0437 — 000		1	GEAR, 18T 18T ギア	
32	FS6 — 0439 — 000		1	GEAR, 14T 14T ギア	
33	FS6 — 0440 — 000		1	GEAR, 67T 67T ギア	
34	FS6 — 0442 — 000		1	GEAR, 14T/38T 14T/38T ギア	
35	FS6 — 0443 — 000		1	GEAR, 15T/18T/37T 15T/18T/37T ギア	
36	FS6 — 0445 — 000		1	GEAR, 15T 15T ギア	
37	FS6 — 0446 — 000		2	GEAR, 14T 14T ギア	
38	FS6 — 2238 — 000		1	SPRING, TENSION ヒッパリ バネ	
39	XG9 — 0177 — 000		2	BALL BEARING ボール ベアリング	
501	XB1 — 2300 — 409		3	SCREW,MACH.,TRUSS HEAD,M3X4 バインド ネジ	
502	XB4 — 7300 — 809		7	SCREW,TAPPING,TRUSS HEAD,M3X8 バインド タッピン ネジ	
503	XB4 — 7301 — 009		4	SCREW,TAPPING,TRUSS HEAD,M3X10 バインド タッピン ネジ	
504	XD2 — 1100 — 502		1	RING,E E リング	

COPYRIGHT © 1995 CANON INC.
CANON NP6012/6012F/6212 REV.1 OCT. 1995 PRINTED IN JAPAN (IMPRIME AU JAPON)

FIGURE 810 FIXING ASSEMBLY
定着器



COPYRIGHT © 1995 CANON INC.
CANON NP6012/6012F/6212 REV.1 OCT. 1995 PRINTED IN JAPAN (IMPRIME AU JAPON)

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
810 –	FG5 – 3492 – 050		1	FIXING ASSEMBLY 定着器	115V
	FG5 – 3493 – 050		1	FIXING ASSEMBLY 定着器	220/240V
1	FB2 – 5014 – 000	N	1	CROSSMEMBER, UPPER 上ステイ	
2	FB2 – 5015 – 000		1	GUIDE, UPPER, DELIVERY 排紙上ガイド	
3	FB2 – 5016 – 000		3	ROLLER 排紙コロ	
4	FB2 – 5019 – 020		1	FLAG, POSITIONING SENSOR 寄りセンサ フラグ	
5	FB2 – 5020 – 000		1	HOLDER, SENSOR センサ ホルダ	
6	FB2 – 5021 – 000		1	FLAG, PAPER SENSING 排紙検知フラグ	
7	FB2 – 5022 – 000		1	WIRE セイギョ ワイヤ	
8	FF2 – 9733 – 000		1	CABLE, SENSOR ケンチ ソクセン	J11,112
9	FF2 – 9779 – 000		1	VARISTOR バリスタ	VZ2
10	FS5 – 0914 – 000		1	GEAR, 17T 17T ギア	
11	FS5 – 2794 – 000		1	SPRING, TORSION ネジリ バネ	
12	FS5 – 2795 – 000		1	SPRING, TENSION ヒッパリ バネ	
13	FS5 – 2796 – 000		3	SPRING, TENSION ヒッパリ バネ	
14	WG8 – 5001 – 000		1	PHOTO-INTERRUPTER, TLP1231 フォトインタラプタ	PS4 J11
501	XB1 – 2300 – 409		6	SCREW,MACH.,TRUSS HEAD,M3X4 バインド ネジ	
502	XB2 – 6300 – 607		2	SCREW,W/WASHER,M3X6 バネツキ バインド ネシ	
503	XD2 – 2300 – 202		1	RING,TOOTHED LOCK ハツキ トメワ	
	FG5-3496-000			FIXING HEATER	

COPYRIGHT © 1995 CANON INC.

FIGURE 811 FIXING FILM REPLACEMENT KIT
定着フィルム交換キット

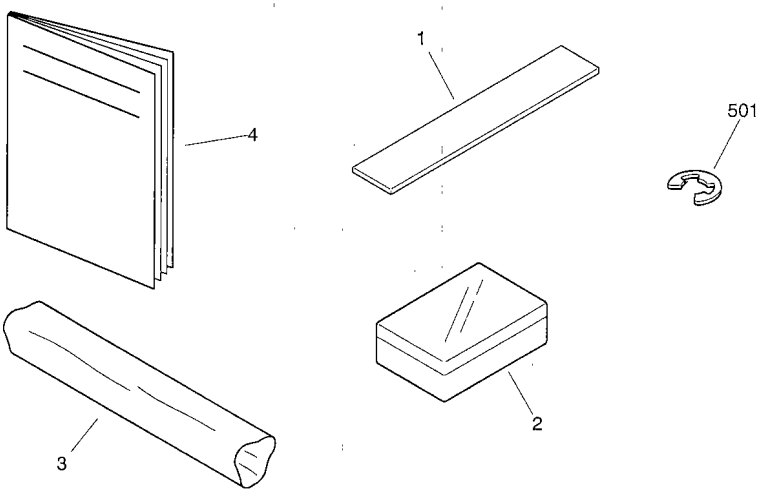
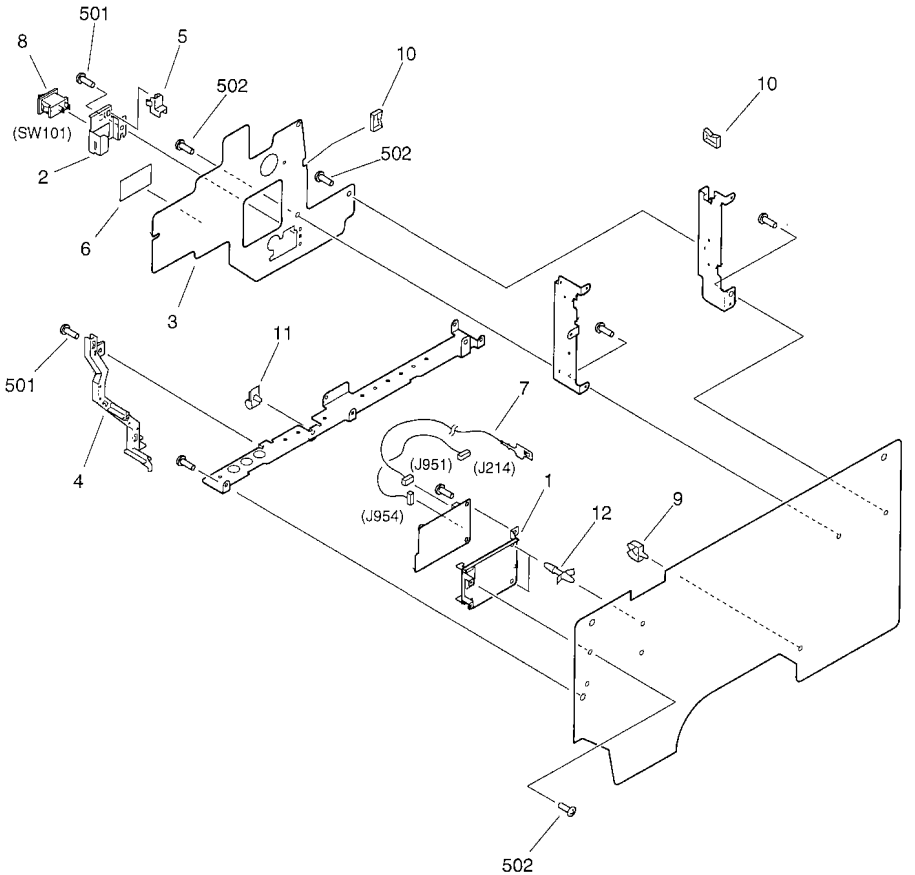


FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
811 -	FG5 — 3516 — 000		1	FIXING FILM REPLACEMENT KIT 定着フィルム交換キット	10 SET/KIT 10セット入り
1			10	SPATULA へら	
2	(FY9-5506-000)		10	COATING GREASE コーティング グリス	
3	NPN		10	FIXING FILM 定着フィルム	
4	NPN		1	FILM REPLACEMENT PROCEDURE 定着フィルム交換手順書	
501	XD2 — 1100 — 502		10	RING,E E リング	

COPYRIGHT © 1995 CANON INC.
CANON NP6012/6012F/6212 REV.1 OCT. 1995 PRINTED IN JAPAN (IMPRIME AU JAPON)

FIGURE 910 DC POWER SUPPLY ASSEMBLY
DC電源回路基板



NOTE:This assembly does not include the part shown with key No.7.
注：このユニットにKey No. 7の部品は含まれません。

COPYRIGHT © 1995 CANON INC.
CANON NP6012/6012F/6212 REV.1 OCT. 1995 PRINTED IN JAPAN [IMPRIME AU JAPON]

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
910 -	FG5 - 5492 - 000		1	DC POWER SUPPLY PCB ASSEMBLY DC電源回路基板	115V
	FG5 - 5493 - 000		1	DC POWER SUPPLY PCB ASSEMBLY DC電源回路基板	220/240V
1	FB3 - 0576 - 000		1	PLATE, PCB MOUNTING 基板台	
2	FB3 - 0577 - 000		1	MOUNT, SWITCH スイッチ台	
3	FB3 - 0578 - 000		1	PLATE, HEATSINK 放熱板上板	
4	FB3 - 0579 - 000		1	GUIDE, BIAS CABLE バイアス ガイド	
5	FB3 - 0580 - 000		1	GUIDE, EDGE エッジ ガイド	
6	FB3 - 0810 - 000		1	LABEL, SERVICE サービス ラベル	
7	FF3 - 0476 - 000		1	CABLE, ANTENNA アンテナ信号束線	SEE NOTE J951
8	WC1 - 5037 - 000		1	SWITCH, ROCKER シーソ スイッチ	SW101
9	WT2 - 0495 - 000		1	CLIP, CABLE ワイヤ サドル	
10	WT2 - 5056 - 000		2	CLIP, WIRE エッジ サドル	
11	WT2 - 5306 - 000		1	CLAMP, CORD コード クランプ	
12	WT2 - 5389 - 000		2	SPACER, PCB PCB スペーサ	
501	XB1 - 2300 - 607		5	SCREW,MACH.,TRUSS HEAD,M3X6 バインド ネジ	
502	XB2 - 8300 - 807		14	SCREW,W/WASHER,M3X8 バネツキ バインド ネジ	
BP101	FF3 - 1090 - 000		1	CABLE, SWITCH, 2 スイッチ束線 (2)	
BP102	FF3 - 1089 - 000		1	CABLE, SWITCH, 1 スイッチ束線 (1)	
C101	VC7 - 0590 - 108		1	CAPACITOR, 1000UF, 35V コンデンサ	
C102	VC7 - 0590 - 477		1	CAPACITOR, 470UF, 35V コンデンサ	
C104	VC5 - 3740 - 104		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C105	VC5 - 3740 - 104		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C106	VC6 - 0950 - 476		1	CAPACITOR, 47UF, 25V コンデンサ	
C107	VC7 - 5290 - 473		1	CAPACITOR, 0.047UF, 50V コンデンサ	
C108	VC7 - 1770 - 104		1	CAPACITOR, 0.1UF, 250V コンデンサ	
C109	VC3 - 2501 - 103		1	CAPACITOR, 0.01UF, 50V コンデンサ	
C110	VC1 - 2351 - 107		1	CAPACITOR, 100UF, 35V コンデンサ	
C112	VC3 - 2501 - 103		1	CAPACITOR, 0.01UF, 50V コンデンサ	
C113	VC8 - 0650 - 687		1	CAPACITOR, 680UF, 200V コンデンサ	115V
	VC8 - 0660 - 187		1	CAPACITOR, 180UF, 400V コンデンサ	220/240V

COPYRIGHT © 1995 CANON INC.

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
910 - C114	VC6 - 3760 - 336		1	CAPACITOR, 33UF, 50V コンデンサ	
C115	VC6 - 2560 - 332		1	CAPACITOR, 3300PF, 250V コンデンサ	
C116	VC5 - 3740 - 104		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C117	VC6 - 3760 - 335		1	CAPACITOR, 3UF, 50V コンデンサ	
C118	VC6 - 3760 - 336		1	CAPACITOR, 33UF, 50V コンデンサ	
C119	VC5 - 6110 - 222		1	CAPACITOR, 2200PF, 2KV コンデンサ	115V
	VC5 - 6110 - 821		1	CAPACITOR, 820PF, 2KV コンデンサ	220/240V
C120	VC1 - 2061 - 336		1	CAPACITOR, 3.3UF, 6.3V コンデンサ	
C121	VC5 - 6110 - 472		1	CAPACITOR, 4700PF, 2KV コンデンサ	115V
	VC5 - 6110 - 821		1	CAPACITOR, 820PF, 2KV コンデンサ	220/240V
C122	VC5 - 3740 - 104		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C123	VC7 - 5130 - 334		1	CAPACITOR, 0.33UF, 50V コンデンサ	
C124	VC4 - 3503 - 102		1	CAPACITOR, 1000PF, 50V コンデンサ	
C201	VC5 - 3740 - 104		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C202	VC7 - 3960 - 337		1	CAPACITOR, 330UF, 35V コンデンサ	
C203	VC5 - 3740 - 104		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C204	VC7 - 3960 - 337		1	CAPACITOR, 330UF, 35V コンデンサ	
C205	VC4 - 3503 - 101		1	CAPACITOR, 100PF, 50V コンデンサ	
C206	VC7 - 5250 - 104		1	CAPACITOR, 0.1UF, 25V コンデンサ	
C207	VC4 - 3503 - 102		1	CAPACITOR, 1000PF, 50V コンデンサ	
C208	VC4 - 3503 - 332		1	CAPACITOR, 3300PF, 50V コンデンサ	
C209	VC7 - 5250 - 104		1	CAPACITOR, 0.1UF, 25V コンデンサ	
C210	VC7 - 1960 - 105		1	CAPACITOR, 1UF, 50V コンデンサ	
C211	VC7 - 3630 - 227		1	CAPACITOR, 220UF, 50V コンデンサ	
C213	VC7 - 5250 - 104		1	CAPACITOR, 0.1UF, 25V コンデンサ	
C215	VC5 - 3740 - 104		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C216	VC7 - 5250 - 104		1	CAPACITOR, 0.1UF, 25V コンデンサ	
C217	VC7 - 2090 - 102		1	CAPACITOR, 1000PF, 250V コンデンサ	
C218	VC6 - 1150 - 103		1	CAPACITOR, 0.01UF, 25V コンデンサ	
C219	VC7 - 2090 - 102		1	CAPACITOR, 1000PF, 250V コンデンサ	

COPYRIGHT © 1995 CANON INC.
CANON NP6012/6012F/6212 REV.1 OCT. 1995 PRINTED IN JAPAN [IMPRIME AU JAPON]

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
910 - C220	VC5 - 3740 - 104		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C221	VC7 - 5250 - 104		1	CAPACITOR, 0.1UF, 25V コンデンサ	
C222	VC8 - 1520 - 108		1	CAPACITOR, 1000UF, 35V コンデンサ	
C223	VC7 - 5250 - 104		1	CAPACITOR, 0.1UF, 25V コンデンサ	
C224	VC7 - 5250 - 104		1	CAPACITOR, 0.1UF, 25V コンデンサ	
C225	VC7 - 5250 - 104		1	CAPACITOR, 0.1UF, 25V コンデンサ	
C227	VC5 - 3740 - 104		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C228	VC4 - 3503 - 102		1	CAPACITOR, 1000PF, 50V コンデンサ	
C229	VC7 - 5250 - 104		1	CAPACITOR, 0.1UF, 25V コンデンサ	
C230	VC7 - 5250 - 104		1	CAPACITOR, 0.1UF, 25V コンデンサ	
C231	VC4 - 3503 - 101		1	CAPACITOR, 100PF, 50V コンデンサ	
C232	VC4 - 3503 - 102		1	CAPACITOR, 1000PF, 50V コンデンサ	
C233	VC6 - 1150 - 103		1	CAPACITOR, 0.01UF, 25V コンデンサ	
C301	VC7 - 1150 - 331		1	CAPACITOR, 330PF, 2KV コンデンサ	
C302	VC7 - 1150 - 222		1	CAPACITOR, 2200PF, 2KV コンデンサ	
C303	VC7 - 5250 - 104		1	CAPACITOR, 0.1UF, 25V コンデンサ	
C304	VC7 - 4830 - 471		1	CAPACITOR, 470PF, 3.15KV コンデンサ	
C305	VC7 - 4830 - 471		1	CAPACITOR, 470PF, 3.15KV コンデンサ	
C307	VC7 - 8400 - 101		1	CAPACITOR, 100PF, 3.15KV コンデンサ	
C308	VC7 - 5130 - 684		1	CAPACITOR, 0.68UF, 50V コンデンサ	
C309	VC7 - 5250 - 104		1	CAPACITOR, 0.1UF, 25V コンデンサ	
C311	VC7 - 1150 - 102		1	CAPACITOR, 1000PF, 2KV コンデンサ	
C312	VC7 - 1150 - 102		1	CAPACITOR, 1000PF, 2KV コンデンサ	
C313	VC6 - 0160 - 222		1	CAPACITOR, 2200PF, 500V コンデンサ	
C314	VC6 - 3310 - 336		1	CAPACITOR, 33UF, 35V コンデンサ	
C315	VC7 - 1150 - 102		1	CAPACITOR, 1000PF, 2KV コンデンサ	
C316	VC7 - 5250 - 104		1	CAPACITOR, 0.1UF, 25V コンデンサ	
C317	VC9 - 5391 - 000		1	CAPACITOR, 3300PF, 2KV コンデンサ	
C318	VC7 - 2730 - 472		1	CAPACITOR, 4700PF, 2KV コンデンサ	
C319	VC7 - 5250 - 104		1	CAPACITOR, 0.1UF, 25V コンデンサ	

COPYRIGHT © 1995 CANON INC.

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
910 - C320	VC7 - 1160 - 150		1	CAPACITOR, 15PF, 2KV コンデンサ	
C401	VC7 - 5990 - 560		1	CAPACITOR, 56PF, 2KV コンデンサ	
C402	VC7 - 5980 - 681		1	CAPACITOR, 680PF, 1KV コンデンサ	
C403	VC7 - 5980 - 681		1	CAPACITOR, 680PF, 1KV コンデンサ	
C404	VC7 - 5980 - 681		1	CAPACITOR, 680PF, 1KV コンデンサ	
C405	VC7 - 5980 - 681		1	CAPACITOR, 680PF, 1KV コンデンサ	
C406	VC6 - 0730 - 476		1	CAPACITOR, 47UF, 35V コンデンサ	
C407	VC7 - 5980 - 102		1	CAPACITOR, 1000PF, 1KV コンデンサ	
C408	VC7 - 5980 - 681		1	CAPACITOR, 680PF, 1KV コンデンサ	
C409	VC7 - 5980 - 681		1	CAPACITOR, 680PF, 1KV コンデンサ	
C410	VC7 - 5980 - 681		1	CAPACITOR, 680PF, 1KV コンデンサ	
C411	VC7 - 5980 - 681		1	CAPACITOR, 680PF, 1KV コンデンサ	
C412	VC7 - 5980 - 681		1	CAPACITOR, 680PF, 1KV コンデンサ	
C413	VC5 - 2810 - 682		1	CAPACITOR, 6800PF, 200V コンデンサ	
C414	VC9 - 5047 - 000		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C415	VC5 - 6000 - 101		1	CAPACITOR, 100PF, 50V コンデンサ	
C416	VC7 - 5400 - 103		1	CAPACITOR, 0.01UF, 25V コンデンサ	
C418	VC7 - 5290 - 473		1	CAPACITOR, 0.047UF, 50V コンデンサ	
C419	VC6 - 0730 - 476		1	CAPACITOR, 47UF, 35V コンデンサ	
C420	VC7 - 1410 - 102		1	CAPACITOR, 1000PF, 100V コンデンサ	
C421	VC6 - 0730 - 476		1	CAPACITOR, 47UF, 35V コンデンサ	
C422	VC7 - 1150 - 101		1	CAPACITOR, 100PF, 2KV コンデンサ	
C423	VC8 - 2810 - 104		1	CAPACITOR, 0.1UF, 200V コンデンサ	
C424	VC7 - 5980 - 102		1	CAPACITOR, 1000PF, 1KV コンデンサ	
C425	VC7 - 1150 - 101		1	CAPACITOR, 100PF, 2KV コンデンサ	
C426	VC9 - 5047 - 000		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C427	VC7 - 5250 - 104		1	CAPACITOR, 0.1UF, 25V コンデンサ	
C428	VC7 - 1410 - 101		1	CAPACITOR, 100PF, 100V コンデンサ	
C501	VC5 - 3740 - 104		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C951	VC7 - 2900 - 100		1	CAPACITOR, 10PF, 2KV コンデンサ	

COPYRIGHT © 1995 CANON INC.
CANON NP6012/6012F/6212 REV.1 OCT.1995 PRINTED IN JAPAN [IMPRIME AU JAPON]

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
910 - C952	VC5 - 8660 - 331		1	CAPACITOR, 330PF, 50V コンデンサ	
C953	VC6 - 3840 - 105		1	CAPACITOR, 1UF, 50V コンデンサ	
C955	VC9 - 5047 - 000		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C956	VC6 - 3840 - 226		1	CAPACITOR, 22UF, 50V コンデンサ	
C957	VC9 - 5047 - 000		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C963	VC6 - 3840 - 105		1	CAPACITOR, 1UF, 50V コンデンサ	
C964	VC5 - 8660 - 270		1	CAPACITOR, 27PF, 50V コンデンサ	
D101	WA1 - 5238 - 000		1	DIODE, AK09 ダイオード	
D102	WA1 - 0777 - 000		1	DIODE, AK04 ダイオード	
D103	WA1 - 5238 - 000		1	DIODE, AK09 ダイオード	
D104	WA1 - 5238 - 000		1	DIODE, AK09 ダイオード	
D105	WA1 - 0887 - 000		1	DIODE, 1SS270A ダイオード	
D106	WA1 - 0887 - 000		1	DIODE, 1SS270A ダイオード	
D107	WA1 - 0887 - 000		1	DIODE, 1SS270A ダイオード	
D108	WA1 - 5069 - 000		1	DIODE, EG01Z ダイオード	
D109	WA1 - 5069 - 000		1	DIODE, EG01Z ダイオード	
D110	WA1 - 5069 - 000		1	DIODE, EG01Z ダイオード	
D111	WA1 - 0887 - 000		1	DIODE, 1SS270A ダイオード	
D112	WA1 - 0887 - 000		1	DIODE, 1SS270A ダイオード	
D113	WA1 - 0887 - 000		1	DIODE, 1SS270A ダイオード	
D114	WA1 - 0887 - 000		1	DIODE, 1SS270A ダイオード	
D115	WA1 - 0887 - 000		1	DIODE, 1SS270A ダイオード	
D116	WA1 - 0887 - 000		1	DIODE, 1SS270A ダイオード	
D117	WA1 - 0887 - 000		1	DIODE, 1SS270A ダイオード	
D118	WA1 - 0887 - 000		1	DIODE, 1SS270A ダイオード	
D119	WA1 - 0777 - 000		1	DIODE, AK04 ダイオード	
D201	WA1 - 0887 - 000		1	DIODE, 1SS270A ダイオード	
D202	WA1 - 0972 - 000		1	DIODE, S5688B ダイオード	
D203	WA1 - 5548 - 000		1	DIODE, FMX-12S ダイオード	
D204	WA1 - 5565 - 000		1	DIODE, HSS81 ダイオード	

COPYRIGHT © 1995 CANON INC.

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
910 - D205	WA1 - 0887 - 000		1	DIODE, 1SS270A ダイオード	
D206	WA1 - 0887 - 000		1	DIODE, 1SS270A ダイオード	
D207	WA1 - 0887 - 000		1	DIODE, 1SS270A ダイオード	
D208	WA1 - 0887 - 000		1	DIODE, 1SS270A ダイオード	
D209	WA1 - 5473 - 000		1	DIODE, FMX-G12S ダイオード	
D210	WA1 - 5473 - 000		1	DIODE, FMX-G12S ダイオード	
D211	WA1 - 5557 - 000		1	DIODE, FMX-23S ダイオード	
D212	WA1 - 0887 - 000		1	DIODE, 1SS270A ダイオード	
D213	WA1 - 0887 - 000		1	DIODE, 1SS270A ダイオード	
D214	WA1 - 0887 - 000		1	DIODE, 1SS270A ダイオード	
D215	WA1 - 0887 - 000		1	DIODE, 1SS270A ダイオード	
D216	WA1 - 0887 - 000		1	DIODE, 1SS270A ダイオード	
D301	WA1 - 0396 - 000		1	DIODE, SHV-03 ダイオード	
D303	WA1 - 0396 - 000		1	DIODE, SHV-03 ダイオード	
D305	WA1 - 0396 - 000		1	DIODE, SHV-03 ダイオード	
D306	WA1 - 0396 - 000		1	DIODE, SHV-03 ダイオード	
D307	WA1 - 0396 - 000		1	DIODE, SHV-03 ダイオード	
D308	WA1 - 0396 - 000		1	DIODE, SHV-03 ダイオード	
D309	WA1 - 0887 - 000		1	DIODE, 1SS270A ダイオード	
D310	WA1 - 0887 - 000		1	DIODE, 1SS270A ダイオード	
D311	WA1 - 0887 - 000		1	DIODE, 1SS270A ダイオード	
D401	WA1 - 1124 - 000		1	DIODE, SHV-02 ダイオード	
D402	WA1 - 1124 - 000		1	DIODE, SHV-02 ダイオード	
D403	WA1 - 0887 - 000		1	DIODE, 1SS270A ダイオード	
D404	WA1 - 1124 - 000		1	DIODE, SHV-02 ダイオード	
D405	WA1 - 1124 - 000		1	DIODE, SHV-02 ダイオード	
D406	WA1 - 1124 - 000		1	DIODE, SHV-02 ダイオード	
D407	WA1 - 1124 - 000		1	DIODE, SHV-02 ダイオード	
D408	WA1 - 1124 - 000		1	DIODE, SHV-02 ダイオード	
D409	WA1 - 1124 - 000		1	DIODE, SHV-02 ダイオード	

COPYRIGHT © 1995 CANON INC.
CANON NP6012/6012F/6212 REV.1 OCT.1995 PRINTED IN JAPAN (IMPRIME AU JAPON)

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
910 - D410	WA1 - 1124 - 000		1	DIODE, SHV-02 ダイオード	
D411	WA1 - 0302 - 000		1	DIODE, ES01F ダイオード	
D412	WA1 - 0630 - 000		1	DIODE, EM01Z ダイオード	
D413	WA1 - 1124 - 000		1	DIODE, SHV-02 ダイオード	
D414	WA1 - 0887 - 000		1	DIODE, 1SS270A ダイオード	
D415	WA1 - 0887 - 000		1	DIODE, 1SS270A ダイオード	
D416	WA1 - 0887 - 000		1	DIODE, 1SS270A ダイオード	
D417	WA1 - 0777 - 000		1	DIODE, AK04 ダイオード	
D418	WA1 - 5662 - 000		1	DIODE, RH2F ダイオード	
D419	WA1 - 5662 - 000		1	DIODE, RH2F ダイオード	
D420	WA1 - 5662 - 000		1	DIODE, RH2F ダイオード	
D421	WA1 - 5662 - 000		1	DIODE, RH2F ダイオード	
D951	WA1 - 0396 - 000		1	DIODE, SHV-03 ダイオード	
D952	WA1 - 0887 - 000		1	DIODE, 1SS270A ダイオード	
D953	WA1 - 0887 - 000		1	DIODE, 1SS270A ダイオード	
D961	WA1 - 0396 - 000		1	DIODE, SHV-03 ダイオード	
D962	WA1 - 0887 - 000		1	DIODE, 1SS270A ダイオード	
D963	WA1 - 0887 - 000		1	DIODE, 1SS270A ダイオード	
FU102	VD7 - 0215 - 001		1	FUSE, 125V, 5A ヒューズ	115V
	VD7 - 0642 - 501		1	FUSE ヒューズ	220/240V
J201	WS3 - 5355 - 000		1	HOUSING, 2P, FEMALE ハウジング (メス)	
J202	VS1 - 5474 - 006		1	CONNECTOR, 6P, MALE コネクタ (オス)	
J203	VS1 - 5517 - 012		1	CONNECTOR, 12P, MALE コネクタ (オス)	
J204	VS1 - 5517 - 007		1	CONNECTOR, 7P, MALE コネクタ (オス)	
J205	FF2 - 9775 - 000		1	CABLE, MOTOR モータ束線	
J206	VS1 - 0571 - 006		1	CONNECTOR, 6P コネクタ	
J207	WS3 - 5355 - 000		1	HOUSING, 2P, FEMALE ハウジング (メス)	
J209	WT1 - 0433 - 000		1	FASTON-TAB, 110391 ファストン タブ	
J211	VS1 - 5484 - 002		1	PIN ASSEMBLY, 4P コネクタ (オス)	
J212	WT1 - 5211 - 000		1	FASTON-TAB, 42027 ファストン タブ	

COPYRIGHT © 1995 CANON INC.

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
910 - J213	WT1 - 5211 - 000		1	FASTON-TAB, 42027 ファストン タブ	
J214	FF3 - 0475 - 000		1	CABLE, TONER SENSOR トナー残量検知束線	J214,954
J215	WT1 - 0433 - 000		1	FASTON-TAB, 110391 ファストン タブ	
J951	VS1 - 5517 - 002		1	CONNECTOR, 2P, MALE コネクタ (オス)	
J952	FF3 - 0477 - 000		1	CABLE, BIAS バイアス束線	
J953	VS1 - 5600 - 003		1	CONNECTOR, 3P, FEMALE コネクタ (メス)	
L101	FH3 - 7170 - 000		1	COIL, CHOKE チョーク コイル	115V
	FH3 - 7195 - 000		1	CHOKE COIL, SN14-8000 チョーク コイル	220/240V
L103	VL5 - 0390 - 086		1	NOISE FILTER ノイズ フィルタ	115V
L201	WE2 - 5153 - 000		1	INDUCTOR, HP-053Z インダクタ	
L202	VL7 - 0310 - 473		1	COIL CHOKE, SBC4-470-162 チョーク コイル	
L401	FH3 - 7169 - 000		1	COIL, CHOKE 蛍光灯チョーク	
Q101	WA2 - 1348 - 000		1	TRANSISTOR, 2SD2088 トランジスタ	
Q102	WA4 - 5094 - 000		1	IC, UPC78L05J-2, REGULATOR レギュレータ IC	
Q103	WA2 - 0362 - 000		1	TRANSISTOR, 2SA1020Y トランジスタ	
Q104	WA2 - 0775 - 000		1	TRANSISTOR, RN2202 トランジスタ	
Q105	WA2 - 0772 - 000		1	TRANSISTOR, RN1202 トランジスタ	
Q106	WA2 - 0772 - 000		1	TRANSISTOR, RN1202 トランジスタ	
Q107	WA2 - 0124 - 000		1	TRANSISTOR, 2SC1815Y トランジスタ	
Q108	WA5 - 5101 - 000		1	TRIAC, BCR16PM-8L-A8 トライアック	115V
	WA5 - 5009 - 000		1	TRIAC, BCR8PM-12L-A8 トライアック	220/240V
Q109	WG8 - 5180 - 000		1	IC, S21MD3TV, PHOTO-TRIAC フォト トライアック	
Q110	WA2 - 0772 - 000		1	TRANSISTOR, RN1202 トランジスタ	
Q111	WA5 - 0093 - 000		1	TRIAC, BCR5AM-8L-A8 トライアック	115V
	WA5 - 0094 - 000		1	TRIAC, BCR5AM-12L-A8 トライアック	220/240V
Q112	WG8 - 5199 - 000		1	IC, S21MD4YY, PHOTO-TRIAC フォト トライアック	
Q113	WA1 - 0977 - 000		1	DIODE, RBV-606 ダイオード	
Q114	WA5 - 5100 - 000		1	TRIAC, TM1262 トライアック	
Q115	WA2 - 0237 - 000		1	TRANSISTOR, 2SC2655 トランジスタ	
Q116	WA2 - 5863 - 000		1	FET, IRFPF50 FET	115V

COPYRIGHT © 1995 CANON INC.
CANON NP6012/6012F/6212 REV.1 OCT. 1995 PRINTED IN JAPAN [IMPRIME AU JAPON]

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
910 - Q116	WA2 - 5457 - 000		1	FET, 2SK1271 トランジスタ	220/240V
Q117	WA2 - 5863 - 000		1	FET, IRFPF50 FET	115V
	WA2 - 5457 - 000		1	FET, 2SK1271 トランジスタ	220/240V
Q118	WA2 - 0135 - 000		1	TRANSISTOR, 2SA1015Y トランジスタ	
Q119	WA2 - 0362 - 000		1	TRANSISTOR, 2SA1020Y トランジスタ	
Q120	WA2 - 5633 - 000		1	FET, 2SJ103GR FET	
Q121	WA4 - 0324 - 000		1	IC, TA78L005AP, REGULATOR レギュレータ IC	
Q122	WA2 - 0058 - 000		1	TRANSISTOR, 2SC1815GR トランジスタ	
Q201	WA4 - 5591 - 000		1	IC, UPC24A05HF, REGULATOR レギュレータ IC	
Q202	WA2 - 0124 - 000		1	TRANSISTOR, 2SC1815Y トランジスタ	
Q203	WA4 - 0233 - 000		1	IC, NJM2903D, COMPARATOR デュアル コンパレータ IC	
Q205	WA2 - 5505 - 000		1	MOS-FET, 2SK1349 MOS-FET	
Q206	WA4 - 0233 - 000		1	IC, NJM2903D, COMPARATOR デュアル コンパレータ IC	
Q207	WA2 - 0237 - 000		1	TRANSISTOR, 2SC2655 トランジスタ	
Q208	WA4 - 0539 - 000		1	IC, NJM2904, COMPARATOR デュアル コンパレータ IC	
Q209	WA2 - 0362 - 000		1	TRANSISTOR, 2SA1020Y トランジスタ	
Q212	WA2 - 0124 - 000		1	TRANSISTOR, 2SC1815Y トランジスタ	
Q301	WA2 - 5503 - 000		1	TRANSISTOR, 2SC4913-03 トランジスタ	
Q303	WA2 - 0124 - 000		1	TRANSISTOR, 2SC1815Y トランジスタ	
Q304	WA2 - 0135 - 000		1	TRANSISTOR, 2SA1015Y トランジスタ	
Q305	WA2 - 5511 - 000		1	TRANSISTOR, 2SC4686A トランジスタ	
Q306	WA2 - 0796 - 000		1	TRANSISTOR, RN1201 トランジスタ	
Q307	WA2 - 0124 - 000		1	TRANSISTOR, 2SC1815Y トランジスタ	
Q401	WA2 - 5880 - 000		1	TRANSISTOR, 2SD1762 トランジスタ	
Q402	WA2 - 1506 - 000		1	TRANSISTOR, 2SC4153 トランジスタ	
Q403	WA2 - 0124 - 000		1	TRANSISTOR, 2SC1815Y トランジスタ	
Q404	WA2 - 5511 - 000		1	TRANSISTOR, 2SC4686A トランジスタ	
Q405	WA2 - 0036 - 000		1	TRANSISTOR, 2SC2120Y トランジスタ	
Q406	WA2 - 0124 - 000		1	TRANSISTOR, 2SC1815Y トランジスタ	
Q407	WA2 - 5016 - 000		1	TRANSISTOR, 2SA1441LK トランジスタ	

COPYRIGHT © 1995 CANON INC.
CANON NP6012/6012F/6212 REV.1 OCT. 1995 PRINTED IN JAPAN [IMPRIME AU JAPON]

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
910 – Q408	WA2 – 0124 – 000		1	TRANSISTOR, 2SC1815Y トランジスタ	
Q409	WA2 – 0772 – 000		1	TRANSISTOR, RN1202 トランジスタ	
Q410	WA2 – 1414 – 000		1	TRANSISTOR, 2SC3691K トランジスタ	
Q411	WA2 – 0124 – 000		1	TRANSISTOR, 2SC1815Y トランジスタ	
Q412	WA2 – 0772 – 000		1	TRANSISTOR, RN1202 トランジスタ	
Q413	WA2 – 0772 – 000		1	TRANSISTOR, RN1202 トランジスタ	
Q414	WA2 – 0772 – 000		1	TRANSISTOR, RN1202 トランジスタ	
Q415	WA2 – 5682 – 000		1	TRANSISTOR, 2SC5002 トランジスタ	
Q416	WA2 – 0124 – 000		1	TRANSISTOR, 2SC1815Y トランジスタ	
Q417	WA2 – 0237 – 000		1	TRANSISTOR, 2SC2655 トランジスタ	
Q418	WA3 – 2028 – 000		1	IC, TC74HC74AP, DUAL FLIP-FLOP デュアル IC	
Q419	WA2 – 0237 – 000		1	TRANSISTOR, 2SC2655 トランジスタ	
Q501	FF3 – 0416 – 000		1	IC, UPD18001GC-120-3BH, HYBRID ハイブリッド IC PCB ユニット	
Q502	WA4 – 5171 – 000		1	IC, RST523F, RESET リセット IC	
Q951	WA2 – 0124 – 000		1	TRANSISTOR, 2SC1815Y トランジスタ	
Q952	WA2 – 0124 – 000		1	TRANSISTOR, 2SC1815Y トランジスタ	
Q953	WA4 – 0233 – 000		1	IC, NJM2903D, COMPARATOR デュアル コンパレータ IC	
Q954	WA2 – 0124 – 000		1	TRANSISTOR, 2SC1815Y トランジスタ	
Q955	WA2 – 0124 – 000		1	TRANSISTOR, 2SC1815Y トランジスタ	
R101	VR7 – 3100 – 103		1	RESISTOR, 10KOHM, 1/4W 抵抗	
R102	VR7 – 3100 – 309		1	RESISTOR, 3 OHM, 1/4W 抵抗	
R103	VR7 – 3100 – 103		1	RESISTOR, 10KOHM, 1/4W 抵抗	
R104	VR7 – 3100 – 182		1	RESISTOR, 1.8KOHM, 1/4W 抵抗	
R108	VR7 – 3100 – 562		1	RESISTOR, 5.6KOHM, 1/4W 抵抗	
R111	VR7 – 3100 – 153		1	RESISTOR, 15KOHM, 1/4W 抵抗	
R112	VR7 – 3100 – 332		1	RESISTOR, 3.3KOHM, 1/4W 抵抗	
R113	VR7 – 4110 – 151		1	RESISTOR, 300 OHM, 1/2W 抵抗	115V
	VR7 – 4110 – 301		1	RESISTOR, 300 OHM, 1/2W 抵抗	220/240V
R114	VR7 – 3100 – 472		1	RESISTOR, 4.7KOHM, 1/4W 抵抗	
R115	VR7 – 0560 – 181		1	RESISTOR, 180 OHM, 1/2W 抵抗	

COPYRIGHT © 1995 CANON INC.
CANON NP6012/6012F/6212 REV.1 OCT. 1995 PRINTED IN JAPAN [IMPRIME AU JAPON]

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
910 - R116	VR7 — 3100 — 222		1	RESISTOR, 2.2KOHM, 1/4W 抵抗	
R117	VR7 — 3100 — 471		1	RESISTOR, 470 OHM, 1/4W 抵抗	
R118	VR7 — 3100 — 100		1	RESISTER, 10 OHM, 1/4W 抵抗	
R119	VR7 — 3100 — 100		1	RESISTER, 10 OHM, 1/4W 抵抗	
R120	VR7 — 3100 — 103		1	RESISTOR, 10KOHM, 1/4W 抵抗	
R121	VR7 — 3100 — 181		1	RESISTOR, 180 OHM, 1/4W 抵抗	
R122	VR7 — 0560 — 391		1	RESISTOR, 390 OHM, 1/2W 抵抗	
R124	VR7 — 4110 — 151		1	RESISTOR, 300 OHM, 1/2W 抵抗	
R126	VR7 — 3100 — 181		1	RESISTOR, 180 OHM, 1/4W 抵抗	
R127	VR5 — 6640 — 471		1	RESISTOR, 470 OHM, 2W 抵抗	
R128	VR9 — 5329 — 000		1	RESISTOR, 0.3 OHM, 1/2W 抵抗	
R129	VR5 — 6040 — 150		1	RESISTOR, 15 OHM, 5W 抵抗	115V
	VR5 — 6040 — 220		1	RESISTOR, 22 OHM, 5W 抵抗	220/240V
R130	VR5 — 1010 — 471		1	RESISTOR, 470 OHM, 1/2W 抵抗	
R131	VR5 — 6630 — 243		1	RESISTOR, 24KOHM, 1W 抵抗	115V
	VR5 — 6630 — 563		1	RESISTOR, 56KOHM, 1W 抵抗	220/240V
R132	VR9 — 5328 — 000		1	RESISTOR, 0.2 OHM, 1/2W 抵抗	
R133	VR5 — 6630 — 243		1	RESISTOR, 24KOHM, 1W 抵抗	115V
	VR5 — 6630 — 563		1	RESISTOR, 56KOHM, 1W 抵抗	220/240V
R134	VR5 — 6630 — 243		1	RESISTOR, 24KOHM, 1W 抵抗	115V
	VR5 — 6630 — 563		1	RESISTOR, 56KOHM, 1W 抵抗	220/240V
R135	VR7 — 2930 — 470		1	RESISTOR, 47 OHM, 3W 抵抗	
R136	VR7 — 3100 — 470		1	RESISTOR, 43 OHM, 1/4W 抵抗	
R137	VR7 — 3100 — 822		1	RESISTOR, 8.2KOHM, 1/4W 抵抗	
R138	VR7 — 3100 — 472		1	RESISTOR, 4.7KOHM, 1/4W 抵抗	
R139	VR7 — 3100 — 102		1	RESISTOR, 1KOHM, 1/4W 抵抗	
R141	VR7 — 4110 — 100		1	RESISTOR, FUSE, 10 OHM, 1/2W 抵抗	
R142	VR7 — 4110 — 100		1	RESISTOR, FUSE, 10 OHM, 1/2W 抵抗	
R143	VR7 — 3100 — 102		1	RESISTOR, 1KOHM, 1/4W 抵抗	115V
	VR7 — 3100 — 471		1	RESISTOR, 470 OHM, 1/4W 抵抗	220/240V

COPYRIGHT © 1995 CANON INC.

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
910 - R144	VR7 - 3100 - 104		1	RESISTOR, 100KOHM, 1/4W 抵抗	
R145	VR7 - 3100 - 104		1	RESISTOR, 100KOHM, 1/4W 抵抗	
R147	VR7 - 3100 - 100		1	RESISTER, 10 OHM, 1/4W 抵抗	
R148	VR7 - 3100 - 101		1	RESISTOR, 100 OHM, 1/4W 抵抗	
R149	VR7 - 3100 - 101		1	RESISTOR, 100 OHM, 1/4W 抵抗	
R150	VR7 - 3100 - 101		1	RESISTOR, 100 OHM, 1/4W 抵抗	
R151	VR7 - 3100 - 472		1	RESISTOR, 4.7KOHM, 1/4W 抵抗	
R152	VR7 - 3100 - 622		1	RESISTOR, 6.2KOHM, 1/4W 抵抗	
R153	VR7 - 3100 - 101		1	RESISTOR, 100 OHM, 1/4W 抵抗	
R154	VR7 - 3100 - 473		1	RESISTOR, 47KOHM, 1/4W 抵抗	
R201	VR9 - 5148 - 000		1	RESISTOR, 0.22 OHM, 1W 抵抗	
R202	VR7 - 3100 - 471		1	RESISTOR, 470 OHM, 1/4W 抵抗	
R203	VR7 - 3100 - 103		1	RESISTOR, 10KOHM, 1/4W 抵抗	
R204	VR7 - 3100 - 472		1	RESISTOR, 4.7KOHM, 1/4W 抵抗	
R205	VR7 - 3100 - 103		1	RESISTOR, 10KOHM, 1/4W 抵抗	
R206	VR7 - 3100 - 103		1	RESISTOR, 10KOHM, 1/4W 抵抗	
R207	VR7 - 3100 - 103		1	RESISTOR, 10KOHM, 1/4W 抵抗	
R208	VR5 - 6640 - 201		1	RESISTOR, 200 OHM, 2W 抵抗	
R209	VR5 - 6415 - 112		1	RESISTOR, 51.1KOHM, 1/4W 抵抗	
R210	VR7 - 3100 - 103		1	RESISTOR, 10KOHM, 1/4W 抵抗	
R211	VR5 - 3680 - 000		1	RESISTOR, 0 OHM, 1/4W 抵抗	
R212	VR7 - 3100 - 103		1	RESISTOR, 10KOHM, 1/4W 抵抗	
R213	VR7 - 3100 - 103		1	RESISTOR, 10KOHM, 1/4W 抵抗	
R214	VR5 - 6412 - 151		1	RESISTOR, 2.15KOHM, 1/4W 抵抗	
R215	VR5 - 6640 - 201		1	RESISTOR, 200 OHM, 2W 抵抗	
R216	VR9 - 5338 - 000		1	RESISTOR, 0.1 OHM, 2W 抵抗	
R217	VR7 - 0560 - 200		1	RESISTOR, 20 OHM, 1/2W 抵抗	
R218	VR7 - 3100 - 102		1	RESISTOR, 1KOHM, 1/4W 抵抗	
R219	VR7 - 3100 - 104		1	RESISTOR, 100KOHM, 1/4W 抵抗	
R220	VR7 - 0560 - 390		1	RESISTOR, 39 OHM, 1/2W 抵抗	

COPYRIGHT © 1995 CANON INC.
CANON NP6012/6012F/6212 REV.1 OCT. 1995 PRINTED IN JAPAN [IMPRIME AU JAPON]

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
910 - R221	VR7 - 3100 - 242		1	RESISTOR, 2.4KOHM, 1/4W 抵抗	
R222	VR5 - 6418 - 251		1	RESISTOR, 8.25KOHM, 1/4W 抵抗	
R223	VR7 - 3100 - 100		1	RESISTER, 10 OHM, 1/4W 抵抗	
R224	VR5 - 6411 - 002		1	RESISTOR, 10KOHM, 1/4W 抵抗	
R225	VR5 - 6415 - 112		1	RESISTOR, 51.1KOHM, 1/4W 抵抗	
R226	VR7 - 3100 - 223		1	RESISTOR, 22KOHM, 1/4W 抵抗	
R227	VR7 - 0560 - 200		1	RESISTOR, 20 OHM, 1/2W 抵抗	
R228	VR7 - 3100 - 103		1	RESISTOR, 10KOHM, 1/4W 抵抗	
R230	VR7 - 3100 - 222		1	RESISTOR, 2.2KOHM, 1/4W 抵抗	
R231	VR7 - 3100 - 560		1	RESISTOR, 56 OHM, 1/4W 抵抗	
R232	VR5 - 6411 - 002		1	RESISTOR, 10KOHM, 1/4W 抵抗	
R233	VR7 - 3100 - 101		1	RESISTOR, 100 OHM, 1/4W 抵抗	
R234	VR5 - 6411 - 001		1	RESISTOR, 1KOHM, 1/4W 抵抗	
R235	VR5 - 6412 - 151		1	RESISTOR, 2.15KOHM, 1/4W 抵抗	
R236	VR5 - 3680 - 000		1	RESISTOR, 0 OHM, 1/4W 抵抗	
R237	VR9 - 5339 - 000		1	RESISTOR, 0.033 OHM, 3W 抵抗	
R238	VR7 - 3100 - 103		1	RESISTOR, 10KOHM, 1/4W 抵抗	
R239	VR7 - 3100 - 821		1	RESISTOR, 820 OHM, 1/4W 抵抗	
R240	VR7 - 3100 - 473		1	RESISTOR, 47KOHM, 1/4W 抵抗	
R241	VR7 - 3100 - 682		1	RESISTOR, 6.8KOHM, 1/4W 抵抗	
R242	VR7 - 3100 - 392		1	RESISTOR, 3.9KOHM, 1/4W 抵抗	
R243	VR7 - 3100 - 104		1	RESISTOR, 100KOHM, 1/4W 抵抗	
R244	VR7 - 3100 - 102		1	RESISTOR, 1KOHM, 1/4W 抵抗	
R245	VR7 - 3100 - 102		1	RESISTOR, 1KOHM, 1/4W 抵抗	
R246	VR5 - 6640 - 201		1	RESISTOR, 200 OHM, 2W 抵抗	
R301	VR7 - 3210 - 474		1	RESISTOR, 470KOHM, 1/4W 抵抗	
R302	VR7 - 3210 - 103		1	RESISTOR, 10KOHM, 1/4W 抵抗	
R303	FH4 - 9169 - 000		1	RESISTOR, 44MOHM, 0.091W 抵抗	
R305	VR7 - 3100 - 203		1	RESISTOR, 20KOHM, 1/4W 抵抗	
R306	RH6 - 3069 - 000		1	RESISTOR, 100MOHM, 1/2W 抵抗	

COPYRIGHT © 1995 CANON INC.

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
910 – R307	VR7 – 3100 – 103		1	RESISTOR, 10KOHM, 1/4W 抵抗	
R309	VR7 – 3100 – 104		1	RESISTOR, 100KOHM, 1/4W 抵抗	
R310	VR5 – 6412 – 262		1	RESISTOR ,22.6KOHM, 1/4W 抵抗	
R313	FH9 – 0367 – 000		1	RESISTOR, 100 OHM, 1W 抵抗	
R314	VR5 – 1010 – 104		1	RESISTOR, 100KOHM, 1/2W 抵抗	
R315	VR7 – 0560 – 220		1	RESISTOR, 22 OHM, 1/2W 抵抗	
R316	FH9 – 0367 – 000		1	RESISTOR, 100 OHM, 1W 抵抗	
R317	VR5 – 1010 – 104		1	RESISTOR, 100KOHM, 1/2W 抵抗	
R318	VR1 – 1141 – 515		1	RESISTOR, 5.1MOHM, 1/4W 抵抗	
R319	VR7 – 3100 – 222		1	RESISTOR, 2.2KOHM, 1/4W 抵抗	
R321	VR7 – 3100 – 222		1	RESISTOR, 2.2KOHM, 1/4W 抵抗	
R322	FH4 – 9163 – 000		1	RESISTOR, 2MOHM, 0.85W 抵抗	
R323	VR7 – 3100 – 223		1	RESISTOR, 22KOHM, 1/4W 抵抗	
R324	VR7 – 3100 – 472		1	RESISTOR, 4.7KOHM, 1/4W 抵抗	
R325	VR7 – 3100 – 103		1	RESISTOR, 10KOHM, 1/4W 抵抗	
R326	VR7 – 3100 – 222		1	RESISTOR, 2.2KOHM, 1/4W 抵抗	
R327	VR7 – 3100 – 470		1	RESISTOR, 43 OHM, 1/4W 抵抗	
R328	FH4 – 9186 – 000		1	RESISTOR, 16.9MOHM, 1/10W 抵抗	
R329	VR7 – 3100 – 103		1	RESISTOR, 10KOHM, 1/4W 抵抗	
R330	VR7 – 3100 – 103		1	RESISTOR, 10KOHM, 1/4W 抵抗	
R331	VR7 – 3100 – 103		1	RESISTOR, 10KOHM, 1/4W 抵抗	
R332	VR7 – 3100 – 103		1	RESISTOR, 10KOHM, 1/4W 抵抗	
R401	VR5 – 6630 – 132		1	RESISTOR, 1.3KOHM, 1W 抵抗	
R402	VR5 – 6630 – 132		1	RESISTOR, 1.3KOHM, 1W 抵抗	
R403	VR5 – 6630 – 132		1	RESISTOR, 1.3KOHM, 1W 抵抗	
R404	VR7 – 0560 – 479		1	RESISTOR, 4.7 OHM, 1/2W 抵抗	
R405	VR5 – 6630 – 132		1	RESISTOR, 1.3KOHM, 1W 抵抗	
R406	VR5 – 6630 – 132		1	RESISTOR, 1.3KOHM, 1W 抵抗	
R407	VR5 – 6630 – 132		1	RESISTOR, 1.3KOHM, 1W 抵抗	
R408	VR7 – 3100 – 103		1	RESISTOR, 10KOHM, 1/4W 抵抗	

COPYRIGHT © 1995 CANON INC.
CANON NP6012/6012F/6212 REV.1 OCT. 1995 PRINTED IN JAPAN [IMPRIME AU JAPON]

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
910 - R409	VR7 — 0560 — 362		1	RESISTOR, 3.6KOHM, 1/2W 抵抗	
R410	VR7 — 0560 — 362		1	RESISTOR, 3.6KOHM, 1/2W 抵抗	
R411	VR7 — 0560 — 362		1	RESISTOR, 3.6KOHM, 1/2W 抵抗	
R412	VR7 — 3100 — 102		1	RESISTOR, 1KOHM, 1/4W 抵抗	
R413	RH6 — 3069 — 000		1	RESISTOR, 100MOHM, 1/2W 抵抗	
R414	RH6 — 3069 — 000		1	RESISTOR, 100MOHM, 1/2W 抵抗	
R415	VR7 — 3100 — 182		1	RESISTOR, 1.8KOHM, 1/4W 抵抗	
R416	VR5 — 6411 — 002		1	RESISTOR, 10KOHM, 1/4W 抵抗	
R417	VR7 — 3100 — 472		1	RESISTOR, 4.7KOHM, 1/4W 抵抗	
R418	VR7 — 3100 — 100		1	RESISTER, 10 OHM, 1/4W 抵抗	
R419	VR7 — 3100 — 272		1	RESISTOR, 2.7KOHM, 1/4W 抵抗	
R420	VR7 — 3100 — 472		1	RESISTOR, 4.7KOHM, 1/4W 抵抗	
R421	VR9 — 5231 — 000		1	RESISTOR, 0.2 OHM, 1/2W 抵抗	
R422	VR7 — 3100 — 122		1	RESISTOR, 1.2KOHM, 1/4W 抵抗	
R423	VR7 — 3100 — 301		1	RESISTOR, 300 OHM, 1/4W 抵抗	
R424	VR7 — 3100 — 102		1	RESISTOR, 1KOHM, 1/4W 抵抗	
R425	VR7 — 3100 — 103		1	RESISTOR, 10KOHM, 1/4W 抵抗	
R426	VR7 — 3100 — 202		1	RESISTOR, 2KOHM, 1/4W 抵抗	
R427	VR7 — 3100 — 104		1	RESISTOR, 100KOHM, 1/4W 抵抗	
R428	VR7 — 3100 — 472		1	RESISTOR, 4.7KOHM, 1/4W 抵抗	
R429	VR7 — 3100 — 472		1	RESISTOR, 4.7KOHM, 1/4W 抵抗	
R430	VR7 — 3100 — 472		1	RESISTOR, 4.7KOHM, 1/4W 抵抗	
R431	VR7 — 3100 — 472		1	RESISTOR, 4.7KOHM, 1/4W 抵抗	
R432	VR7 — 3100 — 153		1	RESISTOR, 15KOHM, 1/4W 抵抗	
R433	VR7 — 3100 — 202		1	RESISTOR, 2KOHM, 1/4W 抵抗	
R434	VR7 — 3100 — 203		1	RESISTOR, 20KOHM, 1/4W 抵抗	
R435	VR7 — 3100 — 103		1	RESISTOR, 10KOHM, 1/4W 抵抗	
R436	VR7 — 3100 — 472		1	RESISTOR, 4.7KOHM, 1/4W 抵抗	
R437	VR7 — 3100 — 472		1	RESISTOR, 4.7KOHM, 1/4W 抵抗	
R438	VR7 — 3100 — 103		1	RESISTOR, 10KOHM, 1/4W 抵抗	

COPYRIGHT © 1995 CANON INC.

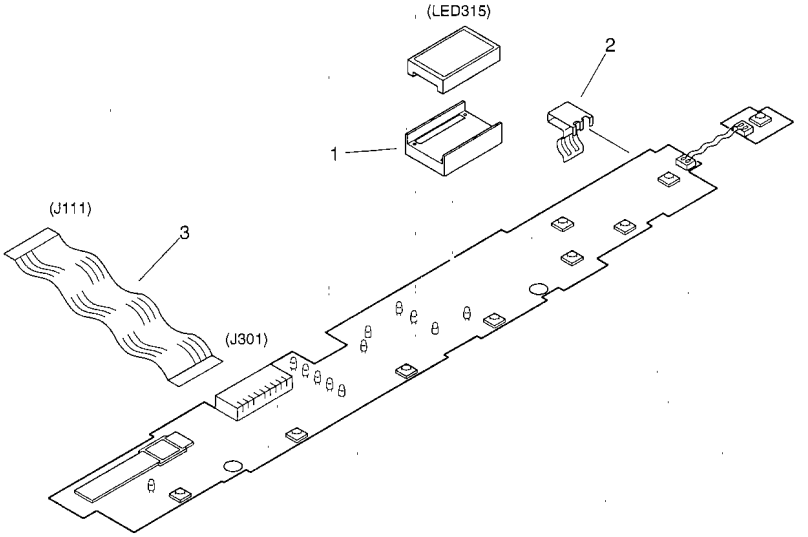
FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
910 - R440	VR5 -- 6630 -- 120		1	RESISTOR, 12 OHM, 1W 抵抗	
R441	VR7 -- 3100 -- 471		1	RESISTOR, 470 OHM, 1/4W 抵抗	
R442	VR7 -- 3100 -- 103		1	RESISTOR, 10KOHM, 1/4W 抵抗	
R443	VR7 -- 3100 -- 472		1	RESISTOR, 4.7KOHM, 1/4W 抵抗	
R444	VR5 -- 6630 -- 120		1	RESISTOR, 12 OHM, 1W 抵抗	
R445	VR7 -- 3100 -- 202		1	RESISTOR, 2KOHM, 1/4W 抵抗	
R446	VR5 -- 1010 -- 561		1	RESISTOR, 560 OHM, 1/2W 抵抗	
R447	VR7 -- 3100 -- 202		1	RESISTOR, 2KOHM, 1/4W 抵抗	
R448	VR7 -- 3100 -- 202		1	RESISTOR, 2KOHM, 1/4W 抵抗	
R449	VR7 -- 3100 -- 101		1	RESISTOR, 100 OHM, 1/4W 抵抗	
R450	VR5 -- 1010 -- 561		1	RESISTOR, 560 OHM, 1/2W 抵抗	
R451	VR7 -- 3100 -- 103		1	RESISTOR, 10KOHM, 1/4W 抵抗	
R452	VR5 -- 6630 -- 120		1	RESISTOR, 12 OHM, 1W 抵抗	
R453	VR7 -- 3100 -- 473		1	RESISTOR, 47KOHM, 1/4W 抵抗	
R454	VR7 -- 0560 -- 362		1	RESISTOR, 3.6KOHM, 1/2W 抵抗	
R455	VR7 -- 3100 -- 101		1	RESISTOR, 100 OHM, 1/4W 抵抗	
R951	VR5 -- 3680 -- 243		1	RESISTOR, 24KOHM, 1/4W 抵抗	
R952	VR5 -- 3680 -- 683		1	RESISTOR, 68KOHM, 1/4W 抵抗	
R954	VR5 -- 3680 -- 105		1	RESISTOR, 1MOHM, 1/4W 抵抗	
R955	VR5 -- 3680 -- 105		1	RESISTOR, 1MOHM, 1/4W 抵抗	
R956	VR5 -- 3680 -- 221		1	RESISTOR, 220 OHM, 1/4W 抵抗	
R957	VR5 -- 3680 -- 103		1	RESISTOR, 10KOHM, 1/4W 抵抗	
R959	VR5 -- 3680 -- 103		1	RESISTOR, 10KOHM, 1/4W 抵抗	
R960	VR5 -- 3680 -- 103		1	RESISTOR, 10KOHM, 1/4W 抵抗	
R961	VR5 -- 3680 -- 103		1	RESISTOR, 10KOHM, 1/4W 抵抗	
R962	VR5 -- 3680 -- 273		1	RESISTOR, 27KOHM, 1/4W 抵抗	
R964	VR5 -- 3680 -- 105		1	RESISTOR, 1MOHM, 1/4W 抵抗	
R965	VR5 -- 3680 -- 105		1	RESISTOR, 1MOHM, 1/4W 抵抗	
R966	VR5 -- 3680 -- 221		1	RESISTOR, 220 OHM, 1/4W 抵抗	
R967	VR5 -- 3680 -- 103		1	RESISTOR, 10KOHM, 1/4W 抵抗	

COPYRIGHT © 1995 CANON INC.
CANON NP6012/6012F/6212 REV.1 OCT. 1995 PRINTED IN JAPAN (IMPRIME AU JAPON)

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
910 - R969	VR5 - 3680 - 104		1	RESISTOR, 100KOHM, 1/4W 抵抗	
R970	VR5 - 3680 - 273		1	RESISTOR, 27KOHM, 1/4W 抵抗	
RL101	FH7 - 6197 - 000		1	RELAY リレー	
SQ101	X62 - 8249 - 000		1	SPARK QUENCHER, AU1201 スパーク キラー	
SQ102	X62 - 8249 - 000		1	SPARK QUENCHER, AU1201 スパーク キラー	
T101	FH3 - 0732 - 000		1	TRANSFORMER, AC AC トランス	115V
	FH3 - 0733 - 000		1	TRANSFORMER, AC AC トランス	220/240V
T102	FH3 - 0779 - 000		1	TRANSFORMER, CONVERTER コンバータ トランス	115V
	FH3 - 0780 - 000		1	TRANSFORMER, CONVERTER コンバータ トランス	220/240V
T103	FH3 - 0667 - 000		1	TRANSFORMER, DRIVE ドライブ トランス	
T104	FH3 - 0665 - 000		1	TRANSFORMER, CURRENT カレント トランス	115V
	FH3 - 0666 - 000		1	TRANSFORMER, CURRENT カレント トランス	220/240V
T201	FH3 - 0668 - 000		1	TRANSFORMER, DRIVE ドライブ トランス	
T301	FH3 - 0569 - 000		1	TRANSFORMER, INVERTER インバータ トランス	
T302	FH3 - 0660 - 000		1	TRANSFORMER トランス	
T401	FH3 - 0734 - 000		1	TRANSFORMER, TRANSFER テンシャ トランス	
T402	FH3 - 0735 - 000		1	TRANSFORMER ヨネツ トランス	
VR101	VR5 - 3520 - 102		1	VARIABLE RESISTOR, 1KOHM, 1/2W 可変抵抗	
VR401	VR5 - 3520 - 102		1	VARIABLE RESISTOR, 1KOHM, 1/2W 可変抵抗	
VR951	VR5 - 3520 - 503		1	VARIABLE RESISTOR, 50KOHM,1/2W 可変抵抗	
VR952	VR5 - 3520 - 503		1	VARIABLE RESISTOR, 50KOHM,1/2W 可変抵抗	
VR953	VR5 - 3520 - 203		1	VARIABLE RESISTOR, 20KOHM,1/2W 可変抵抗	
X501	WK2 - 5429 - 000		1	OSCILLATOR, CERAMIC セラミック発振子	
ZD201	WA1 - 5027 - 000		1	DIODE, ZENER, HZS30-Z ツェナー ダイオード	
ZD202	WA1 - 5163 - 000		1	DIODE, ZENER, HZS7A-2 ツェナー ダイオード	
ZD203	WA1 - 0818 - 000		1	DIODE, ZENER, HZS3B2 ツェナー ダイオード	
ZD401	WA1 - 0948 - 000		1	DIODE, ZENER, HZS22-2 ツェナー ダイオード	
ZD402	WA1 - 1001 - 000		1	DIODE, ZENER, HZS15-2 ツェナー ダイオード	
ZD403	WA1 - 1027 - 000		1	DIODE, ZENER, HZS2B2 ツェナー ダイオード	

COPYRIGHT © 1995 CANON INC.

FIGURE 915 CONTROL PANEL PCB ASSEMBLY
操作回路基板



NOTE:This assembly does not include the part shown with key No.3.
注：このユニットにKey No. 3の部品は含まれません。

COPYRIGHT © 1995 CANON INC.
CANON NP6012/6012F/6212 REV.1 OCT. 1995 PRINTED IN JAPAN [IMPRIME AU JAPON]

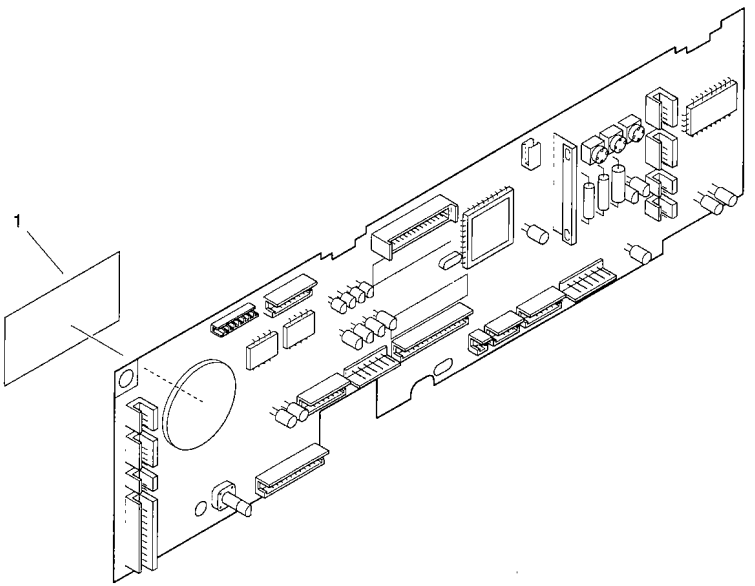
FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
915 -	FG5 — 5497 — 000		1	CONTROL PANEL PCB ASSEMBLY 操作回路基板	NP6012
	FG5 — 5469 — 000		1	CONTROL PANEL PCB ASSEMBLY 操作回路基板	NP6012F/6212
1	FB2 — 4900 — 000		1	SPACER スペーサ	
2	FB2 — 4901 — 000		1	PLATE, GROUNDING 操作部アース板	
3	FH2 — 6231 — 000		1	CABLE, FLAT フラット ケーブル	SEE NOTE J111,301
D301	X65 — 5032 — 000		1	DIODE, 1S1588 ダイオード	
D302	X65 — 5032 — 000		1	DIODE, 1S1588 ダイオード	
D303	X65 — 5032 — 000		1	DIODE, 1S1588 ダイオード	
D304	X65 — 5032 — 000		1	DIODE, 1S1588 ダイオード	
J301	VS1 — 5711 — 019		1	CANNECTOR, 19P, FEMALE コネクタ (メス)	
J304	VS1 — 5600 — 002		1	CONNECTOR, 2P, FEMALE コネクタ (メス)	
LED301	WG1 — 5280 — 000		1	LED, EM302F2 LED	
LED302	WG1 — 5280 — 000		1	LED, EM302F2 LED	
LED303	WG1 — 5280 — 000		1	LED, EM302F2 LED	
LED304	WG1 — 5280 — 000		1	LED, EM302F2 LED	
LED305	WG1 — 5280 — 000		1	LED, EM302F2 LED	
LED306	WG1 — 5280 — 000		1	LED, EM302F2 LED	
LED307	WG1 — 5281 — 000		1	LED, EA302F2 LED	
LED308	WG1 — 5280 — 000		1	LED, EM302F2 LED	
LED310	WG1 — 5280 — 000		1	LED, EM302F2 LED	
LED311	WG1 — 5280 — 000		1	LED, EM302F2 LED	
LED312	WG1 — 5280 — 000		1	LED, EM302F2 LED	
LED313	WG1 — 5281 — 000		1	LED, EA302F2 LED	
LED314	WG1 — 5281 — 000		1	LED, EA302F2 LED	
LED315	FH7 — 3277 — 000		1	LED, 7 SEGMENT 7 セグメント LED	
LED316	WG1 — 5281 — 000		1	LED, EA302F2 LED	NP6012F/6212
LED317	WG1 — 5281 — 000		1	LED, EA302F2 LED	NP6012F/6212
R301	VR1 — 1141 — 820		1	RESISTOR, 51 OHM, 1/4W 抵抗	
R302	VR1 — 1141 — 820		1	RESISTOR, 51 OHM, 1/4W 抵抗	
R303	VR1 — 1141 — 820		1	RESISTOR, 51 OHM, 1/4W 抵抗	

COPYRIGHT © 1995 CANON INC.

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
915 - R304	VR1 - 1141 - 820		1	RESISTOR, 51 OHM, 1/4W 抵抗	
R305	VR1 - 1141 - 820		1	RESISTOR, 51 OHM, 1/4W 抵抗	
R306	VR1 - 1141 - 820		1	RESISTOR, 51 OHM, 1/4W 抵抗	
R307	VR1 - 1141 - 820		1	RESISTOR, 51 OHM, 1/4W 抵抗	
R308	VR1 - 1141 - 820		1	RESISTOR, 51 OHM, 1/4W 抵抗	
SW301	WC2 - 5102 - 000		1	SWITCH, BUTTON ボタン スイッチ	
SW302	WC2 - 5102 - 000		1	SWITCH, BUTTON ボタン スイッチ	
SW303	WC2 - 5102 - 000		1	SWITCH, BUTTON ボタン スイッチ	
SW304	WC2 - 5102 - 000		1	SWITCH, BUTTON ボタン スイッチ	
SW305	WC2 - 5102 - 000		1	SWITCH, BUTTON ボタン スイッチ	
SW306	WC2 - 5102 - 000		1	SWITCH, BUTTON ボタン スイッチ	
SW307	WC2 - 5102 - 000		1	SWITCH, BUTTON ボタン スイッチ	
SW308	WC2 - 5102 - 000		1	SWITCH, BUTTON ボタン スイッチ	
SW309	WC2 - 5102 - 000		1	SWITCH, BUTTON ボタン スイッチ	
VR301	VR5 - 6660 - 103		1	RESISTOR, VARIABLE, 10KOHM カヘン テイコウ	

COPYRIGHT © 1995 CANON INC
CANON NP6012/6012F/6212 REV.1 OCT.1995 PRINTED IN JAPAN [IMPRIME AU JAPON]

FIGURE 930 DC CONTROLLER PCB ASSEMBLY
DCコントローラ回路基板



COPYRIGHT © 1995 CANON INC.
CANON NP6012/6012F/6212 REV.1 OCT. 1995 PRINTED IN JAPAN (IMPRIME AU JAPON)

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
930 -	FG5 - 5505 - 000		1	DC CONTROLLER PCB ASSEMBLY DCコントローラ回路基板	NP6012 12CPM INCH SIZE
	FG5 - 5490 - 000		1	DC CONTROLLER PCB ASSEMBLY DCコントローラ回路基板	NP6012 PGP INCH SIZE
	※ FG5 - 5489 - 000		1	DC CONTROLLER PCB ASSEMBLY DCコントローラ回路基板	NP6012 12CPM AB SIZE
	FG5 - 5507 - 000		1	DC CONTROLLER PCB ASSEMBLY DCコントローラ回路基板	NP6012F PGP INCH SIZE
	FG5 - 5506 - 000		1	DC CONTROLLER PCB ASSEMBLY DCコントローラ回路基板	NP6212 12CPM AB SIZE
1	FB3 - 0672 - 000		1	SHEET, INSULATING 絶縁シート	
BAT 1	WK1 - 0082 - 000		1	BATTERY, LITIUM リチウム電池	
C101	VW4 - 2037 - 102		1	CAPACITOR, 1000PF, 50V コンデンサ	
C102	VW4 - 2234 - 150		1	CAPACITOR, 15PF, 50V コンデンサ	
C103	VW4 - 2234 - 150		1	CAPACITOR, 15PF, 50V コンデンサ	
C104	VW4 - 2037 - 104		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C105	VW4 - 2037 - 104		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C106	VW4 - 2835 - 222		1	CAPACITOR, 2200PF, 50V コンデンサ	
C107	VW4 - 2835 - 222		1	CAPACITOR, 2200PF, 50V コンデンサ	
C108	VW4 - 2835 - 821		1	CAPACITOR, 820UF, 50V コンデンサ	
C109	VW4 - 2835 - 821		1	CAPACITOR, 820UF, 50V コンデンサ	
C111	VC6 - 3000 - 104		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C112	VC6 - 3000 - 104		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C114	VC6 - 3000 - 104		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C126	VW4 - 2037 - 332		1	CAPACITOR, 3300PF, 50V コンデンサ	
C127	VW4 - 2037 - 102		1	CAPACITOR, 1000PF, 50V コンデンサ	
C128	VW4 - 2037 - 102		1	CAPACITOR, 1000PF, 50V コンデンサ	
C129	VW4 - 2037 - 102		1	CAPACITOR, 1000PF, 50V コンデンサ	
C131	VW4 - 2037 - 102		1	CAPACITOR, 1000PF, 50V コンデンサ	
C132	VW4 - 2037 - 102		1	CAPACITOR, 1000PF, 50V コンデンサ	
C133	VW4 - 2037 - 102		1	CAPACITOR, 1000PF, 50V コンデンサ	
C136	VW4 - 2037 - 102		1	CAPACITOR, 1000PF, 50V コンデンサ	
C137	VW4 - 2037 - 102		1	CAPACITOR, 1000PF, 50V コンデンサ	
C138	VW4 - 2037 - 102		1	CAPACITOR, 1000PF, 50V コンデンサ	
C139	VW4 - 2037 - 102		1	CAPACITOR, 1000PF, 50V コンデンサ	

COPYRIGHT © 1995 CANON INC.

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
930 - C140	VW4 - 2037 - 102		1	CAPACITOR, 1000PF, 50V コンデンサ	
C141	VW4 - 2037 - 102		1	CAPACITOR, 1000PF, 50V コンデンサ	
C142	VC7 - 4260 - 476		1	CAPACITOR, 47UF, 10V コンデンサ	
C143	VW4 - 2037 - 104		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C144	VW4 - 2037 - 104		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C145	VC4 - 3503 - 102		1	CAPACITOR, 1000PF, 50V コンデンサ	
C146	VC8 - 0790 - 107		1	CAPACITOR, 100UF, 50V コンデンサ	
C147	VW4 - 2037 - 102		1	CAPACITOR, 1000PF, 50V コンデンサ	
C148	VC4 - 3503 - 102		1	CAPACITOR, 1000PF, 50V コンデンサ	
C149	VC8 - 0780 - 107		1	CAPACITOR, 100UF, 10V コンデンサ	
C150	VC8 - 0790 - 107		1	CAPACITOR, 100UF, 50V コンデンサ	
C151	VC8 - 0780 - 107		1	CAPACITOR, 100UF, 10V コンデンサ	
C152	VW4 - 2037 - 102		1	CAPACITOR, 1000PF, 50V コンデンサ	
C153	VW4 - 2037 - 102		1	CAPACITOR, 1000PF, 50V コンデンサ	
C155	VC6 - 3000 - 104		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C157	VW4 - 2037 - 102		1	CAPACITOR, 1000PF, 50V コンデンサ	
C158	VW4 - 2037 - 104		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C159	VW4 - 2037 - 104		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C160	VW4 - 2037 - 104		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C161	VW4 - 2037 - 104		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C162	VW4 - 2037 - 102		1	CAPACITOR, 1000PF, 50V コンデンサ	
C163	VC8 - 2340 - 822		1	CAPACITOR, 8200PF, 200V コンデンサ	
C164	VC8 - 2340 - 822		1	CAPACITOR, 8200PF, 200V コンデンサ	
C165	VC8 - 2340 - 822		1	CAPACITOR, 8200PF, 200V コンデンサ	
C166	VC8 - 2340 - 822		1	CAPACITOR, 8200PF, 200V コンデンサ	
C167	VW4 - 2037 - 104		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C168	VW4 - 2037 - 102		1	CAPACITOR, 1000PF, 50V コンデンサ	
C169	VW4 - 2037 - 102		1	CAPACITOR, 1000PF, 50V コンデンサ	
C170	VW4 - 2037 - 102		1	CAPACITOR, 1000PF, 50V コンデンサ	
C171	VW4 - 2037 - 102		1	CAPACITOR, 1000PF, 50V コンデンサ	

COPYRIGHT © 1995 CANON INC.
CANON NP6012/6012F/6212 REV.1 OCT. 1995 PRINTED IN JAPAN [IMPRIME AU JAPON]

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
930 - C172	VW4 - 2037 - 102		1	CAPACITOR, 1000PF, 50V コンデンサ	
C173	VW4 - 2037 - 102		1	CAPACITOR, 1000PF, 50V コンデンサ	
C174	VW4 - 2037 - 102		1	CAPACITOR, 1000PF, 50V コンデンサ	
C175	VW4 - 2037 - 102		1	CAPACITOR, 1000PF, 50V コンデンサ	
C178	VW4 - 2037 - 102		1	CAPACITOR, 1000PF, 50V コンデンサ	
C179	VW4 - 2037 - 101		1	CAPACITOR, 100PF, 50V コンデンサ	
C181	VW4 - 2037 - 102		1	CAPACITOR, 1000PF, 50V コンデンサ	
C182	VC6 - 3000 - 104		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C183	VW4 - 2037 - 102		1	CAPACITOR, 1000PF, 50V コンデンサ	
C184	VC6 - 3000 - 104		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C185	VC6 - 3000 - 104		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C186	VC6 - 3000 - 104		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C187	VC6 - 5910 - 476		1	CAPACITOR, 47UF, 16V コンデンサ	
C191	VW4 - 2037 - 223		1	CAPACITOR, 0.022UF, 50V コンデンサ	
C192	VW4 - 2037 - 332		1	CAPACITOR, 3300PF, 50V コンデンサ	
C193	VW4 - 2037 - 332		1	CAPACITOR, 3300PF, 50V コンデンサ	
C194	VW4 - 2037 - 223		1	CAPACITOR, 0.022UF, 50V コンデンサ	
C200	VW4 - 2037 - 102		1	CAPACITOR, 1000PF, 50V コンデンサ	
C201	VW4 - 2037 - 223		1	CAPACITOR, 0.022UF, 50V コンデンサ	
C202	VW4 - 2037 - 104		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C203	VW4 - 2037 - 102		1	CAPACITOR, 1000PF, 50V コンデンサ	
C205	VW4 - 2037 - 104		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C206	VC6 - 3000 - 104		1	CAPACITOR, 0.1UF, 50V コンデンサ	
D102	WA1 - 5667 - 000		1	DIODE, 1SS133 ダイオード	
D103	WA1 - 5667 - 000		1	DIODE, 1SS133 ダイオード	NP6012 12CPM INCH SIZE
D108	WA1 - 5667 - 000		1	DIODE, 1SS133 ダイオード	
D112	WA1 - 5667 - 000		1	DIODE, 1SS133 ダイオード	
D113	WA1 - 5667 - 000		1	DIODE, 1SS133 ダイオード	
D114	WA1 - 5667 - 000		1	DIODE, 1SS133 ダイオード	
D115	WA1 - 5667 - 000		1	DIODE, 1SS133 ダイオード	

COPYRIGHT © 1995 CANON INC.

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
930 - D117	WA1 — 5667 — 000		1	DIODE, 1SS133 ダイオード	
D124	WA1 — 0972 — 000		1	DIODE, S5688B ダイオード	
D125	WA1 — 0972 — 000		1	DIODE, S5688B ダイオード	
D126	WA1 — 0972 — 000		1	DIODE, S5688B ダイオード	
D127	WA1 — 0972 — 000		1	DIODE, S5688B ダイオード	
D128	WA1 — 5667 — 000		1	DIODE, 1SS133 ダイオード	
D132	WA1 — 5667 — 000		1	DIODE, 1SS133 ダイオード	
D133	WA1 — 5667 — 000		1	DIODE, 1SS133 ダイオード	
D183	WA1 — 0777 — 000		1	DIODE, AK04 ダイオード	
D184	WA1 — 5667 — 000		1	DIODE, 1SS133 ダイオード	
D185	WA1 — 5667 — 000		1	DIODE, 1SS133 ダイオード	
D186	WA1 — 5667 — 000		1	DIODE, 1SS133 ダイオード	
D188	WA1 — 5667 — 000		1	DIODE, 1SS133 ダイオード	
D189	WA1 — 0972 — 000		1	DIODE, S5688B ダイオード	
D190	WA1 — 5667 — 000		1	DIODE, 1SS133 ダイオード	
D191	WA1 — 0972 — 000		1	DIODE, S5688B ダイオード	
D193	WA1 — 5667 — 000		1	DIODE, 1SS133 ダイオード	
D195	WA1 — 5667 — 000		1	DIODE, 1SS133 ダイオード	
D196	WA1 — 0960 — 000		1	DIODE, AK03 ダイオード	
D197	WA1 — 0960 — 000		1	DIODE, AK03 ダイオード	
D198	WA1 — 0972 — 000		1	DIODE, S5688B ダイオード	
D199	WA1 — 5667 — 000		1	DIODE, 1SS133 ダイオード	PGP INCH SIZE
D200	WA1 — 5667 — 000		1	DIODE, 1SS133 ダイオード	
D201	WA1 — 5667 — 000		1	DIODE, 1SS133 ダイオード	
D202	WA1 — 5667 — 000		1	DIODE, 1SS133 ダイオード	
D203	WA1 — 5667 — 000		1	DIODE, 1SS133 ダイオード	
D204	WA1 — 0960 — 000		1	DIODE, AK03 ダイオード	
D205	WA1 — 0960 — 000		1	DIODE, AK03 ダイオード	
D206	WA1 — 0960 — 000		1	DIODE, AK03 ダイオード	
D207	WA1 — 5667 — 000		1	DIODE, 1SS133 ダイオード	

COPYRIGHT © 1995 CANON INC.
CANON NP6012/6012F/6212 REV.1 OCT. 1995 PRINTED IN JAPAN [IMPRIME AU JAPON]

FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
930 - D208	WA1 - 5667 - 000		1	DIODE, 1SS133 ダイオード	
J001	VS1 - 5600 - 006		1	CONNECTOR, 6P, FEMALE コネクタ (メス)	
J101	VS1 - 1028 - 003		1	CONNECTOR, 3P, MALE コネクタ (オス)	
J102	VS1 - 1028 - 010		1	CONNECTOR, 10P, MALE コネクタ (オス)	
J103	VS1 - 1028 - 012		1	CONNECTOR, 12P, MALE コネクタ (オス)	
J104	VS1 - 1028 - 007		1	CONNECTOR, 7P, MALE コネクタ (オス)	
J105	VS1 - 0571 - 006		1	CONNECTOR, 6P コネクタ	
J106	VS1 - 1028 - 002		1	PIN ASSEMBLY, 2P ピン アセンブリ	
J107	VS1 - 0571 - 005		1	CONNECTOR, 5P, MALE コネクタ (オス)	
J108	VS1 - 1028 - 005		1	CONNECTOR, 5P, MALE コネクタ (オス)	
J109	VS1 - 1028 - 014		1	CONNECTOR, 14P, MALE コネクタ (オス)	
J110	VS1 - 1028 - 006		1	CONNECTOR, 6P, MALE コネクタ (オス)	
J111	VS1 - 5826 - 019		1	CONNECTOR, 19P, FEMALE コネクタ (メス)	
J112	VS1 - 1028 - 004		1	CONNECTOR, 4P, MALE コネクタ (オス)	
J114	VS1 - 1028 - 008		1	CONNECTOR, 8P, MALE コネクタ (オス)	
J117	VS1 - 1028 - 002		1	PIN ASSEMBLY, 2P ピン アセンブリ	
J119	VS1 - 1028 - 002		1	PIN ASSEMBLY, 2P ピン アセンブリ	
J120	VS1 - 1028 - 006		1	CONNECTOR, 6P, MALE コネクタ (オス)	
J121	VS1 - 1028 - 005		1	CONNECTOR, 5P, MALE コネクタ (オス)	
J122	VS1 - 1029 - 002		1	CONNECTOR, 2P, MALE コネクタ (オス)	
J123	VS1 - 1028 - 003		1	CONNECTOR, 3P, MALE コネクタ (オス)	
JP 6	VV1 - 2000 - 000		1	RESISTOR, 0 OHM, 2W 抵抗	
NF001	WK3 - 5040 - 000		1	FILTER, NOISE ノイズ フィルタ	
Q101	FH4 - 1242 - 000		1	IC, HD6433042T07F, CPU CPU	NP6012
	FH4 - 1251 - 000		1	IC, HD6433042T12F, CPU CPU	NP6012F/6212
Q102	WA2 - 5874 - 000		1	TRANSISTOR, DTC114EK トランジスタ	
Q103	WA2 - 5873 - 000		1	TRANSISTOR, DTA114EK トランジスタ	
Q104	WA2 - 5874 - 000		1	TRANSISTOR, DTC114EK トランジスタ	
Q105	WA4 - 5980 - 000		1	IC, PST591EMT, RESET リセット IC	
Q106	WA4 - 5228 - 000		1	IC, AN1324, OP AMP オペアンプ	

COPYRIGHT © 1995 CANON INC.

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
930 - Q107	WA4 - 0590 - 000		1	IC, AN1358, OP AMP. オペアンプ	
Q108	WA4 - 5939 - 000		1	IC, AN1393, COMPARATOR デュアルコンパレータ IC	
Q109	WA4 - 5214 - 000		1	IC, SLA7024M, MOTOR DRIVER ドライバ IC	
Q110	WA2 - 0863 - 000		1	TRANSISTOR, 2SB1098L トランジスタ	
Q111	WA2 - 5874 - 000		1	TRANSISTOR, DTC114EK トランジスタ	
Q112	WA2 - 5874 - 000		1	TRANSISTOR, DTC114EK トランジスタ	
Q113	WA2 - 5874 - 000		1	TRANSISTOR, DTC114EK トランジスタ	
Q114	WA2 - 5874 - 000		1	TRANSISTOR, DTC114EK トランジスタ	
Q115	WA2 - 5874 - 000		1	TRANSISTOR, DTC114EK トランジスタ	
Q116	WA2 - 5874 - 000		1	TRANSISTOR, DTC114EK トランジスタ	
Q117	WA2 - 5874 - 000		1	TRANSISTOR, DTC114EK トランジスタ	
Q118	WA2 - 5874 - 000		1	TRANSISTOR, DTC114EK トランジスタ	
Q119	WA2 - 5874 - 000		1	TRANSISTOR, DTC114EK トランジスタ	
Q120	WA2 - 5874 - 000		1	TRANSISTOR, DTC114EK トランジスタ	
Q121	WA2 - 5884 - 000		1	TRANSISTOR, 2SA950-Y トランジスタ	
Q122	WA2 - 5884 - 000		1	TRANSISTOR, 2SA950-Y トランジスタ	
Q123	WA2 - 5884 - 000		1	TRANSISTOR, 2SA950-Y トランジスタ	
Q124	WA2 - 5884 - 000		1	TRANSISTOR, 2SA950-Y トランジスタ	
Q131	WA2 - 5874 - 000		1	TRANSISTOR, DTC114EK トランジスタ	
Q132	WA2 - 5873 - 000		1	TRANSISTOR, DTA114EK トランジスタ	
Q133	WA2 - 0383 - 000		1	TRANSISTOR, 2SD1308 トランジスタ	
Q134	WA2 - 5874 - 000		1	TRANSISTOR, DTC114EK トランジスタ	
Q135	WA2 - 5874 - 000		1	TRANSISTOR, DTC114EK トランジスタ	
Q136	WA2 - 5874 - 000		1	TRANSISTOR, DTC114EK トランジスタ	
Q137	WA2 - 5873 - 000		1	TRANSISTOR, DTA114EK トランジスタ	
Q138	WA2 - 5874 - 000		1	TRANSISTOR, DTC114EK トランジスタ	
Q139	WA2 - 5874 - 000		1	TRANSISTOR, DTC114EK トランジスタ	
Q140	WA2 - 5874 - 000		1	TRANSISTOR, DTC114EK トランジスタ	
Q142	FH9 - 0483 - 000		1	TRANSISTOR, 2SD1929 トランジスタ	
Q143	FH9 - 0483 - 000		1	TRANSISTOR, 2SD1929 トランジスタ	

COPYRIGHT © 1995 CANON INC.
CANON NP6012/6012F/6212 REV.1 OCT.1995 PRINTED IN JAPAN [IMPRIME AU JAPON]

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
930 - Q144	FH9 - 0483 - 000		1	TRANSISTOR, 2SD1929 トランジスタ	
Q145	FH9 - 0483 - 000		1	TRANSISTOR, 2SD1929 トランジスタ	
Q146	WA2 - 5874 - 000		1	TRANSISTOR, DTC114EK トランジスタ	
Q147	WA2 - 5873 - 000		1	TRANSISTOR, DTA114EK トランジスタ	
Q148	WA2 - 5874 - 000		1	TRANSISTOR, DTC114EK トランジスタ	
Q149	WA2 - 5874 - 000		1	TRANSISTOR, DTC114EK トランジスタ	
Q150	WA2 - 5873 - 000		1	TRANSISTOR, DTA114EK トランジスタ	
Q151	WA2 - 5873 - 000		1	TRANSISTOR, DTA114EK トランジスタ	
Q152	WA2 - 5874 - 000		1	TRANSISTOR, DTC114EK トランジスタ	
Q153	WA3 - 4209 - 000		1	IC, TC4S30F, LOGIC ロジック IC	
Q155	WA2 - 5874 - 000		1	TRANSISTOR, DTC114EK トランジスタ	
Q157	WA2 - 5874 - 000		1	TRANSISTOR, DTC114EK トランジスタ	
Q158	WA2 - 5874 - 000		1	TRANSISTOR, DTC114EK トランジスタ	
Q160	WA2 - 5874 - 000		1	TRANSISTOR, DTC114EK トランジスタ	
Q161	WA2 - 5874 - 000		1	TRANSISTOR, DTC114EK トランジスタ	
Q162	WA2 - 5874 - 000		1	TRANSISTOR, DTC114EK トランジスタ	
Q163	FH9 - 0483 - 000		1	TRANSISTOR, 2SD1929 トランジスタ	
Q164	FH9 - 0483 - 000		1	TRANSISTOR, 2SD1929 トランジスタ	
Q165	WA2 - 5873 - 000		1	TRANSISTOR, DTA114EK トランジスタ	
Q167	WA2 - 5873 - 000		1	TRANSISTOR, DTA114EK トランジスタ	
Q173	WA2 - 5873 - 000		1	TRANSISTOR, DTA114EK トランジスタ	
Q174	WA2 - 5873 - 000		1	TRANSISTOR, DTA114EK トランジスタ	
Q176	WA2 - 5873 - 000		1	TRANSISTOR, DTA114EK トランジスタ	
Q179	WA4 - 6294 - 000		1	IC, PST600GMT, RESET リセット IC	
Q180	FH9 - 0483 - 000		1	TRANSISTOR, 2SD1929 トランジスタ	
Q182	WA2 - 5874 - 000		1	TRANSISTOR, DTC114EK トランジスタ	
Q183	WA2 - 5874 - 000		1	TRANSISTOR, DTC114EK トランジスタ	
Q184	WA2 - 5873 - 000		1	TRANSISTOR, DTA114EK トランジスタ	
Q185	FH9 - 0483 - 000		1	TRANSISTOR, 2SD1929 トランジスタ	
Q186	WA4 - 6539 - 000		1	IC, PST594EMT, SYSTEM RESET システム リセットIC	

COPYRIGHT © 1995 CANON INC.

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
930 – R101	VR7 – 5130 – 102		1	RESISTOR, 1KOHM, 1/10W 抵抗	
R102	VR7 – 5130 – 102		1	RESISTOR, 1KOHM, 1/10W 抵抗	
R104	VR7 – 5130 – 102		1	RESISTOR, 1KOHM, 1/10W 抵抗	
R105	VR7 – 5130 – 103		1	RESISTOR, 10KOHM, 1/10W 抵抗	
R106	VR7 – 5130 – 103		1	RESISTOR, 10KOHM, 1/10W 抵抗	
R107	VR5 – 0790 – 109		1	RESISTOR, 1.OHM, 2W 抵抗	
R108	VR5 – 0790 – 109		1	RESISTOR, 1.OHM, 2W 抵抗	
R109	VR7 – 5130 – 473		1	RESISTOR, 47KOHM, 1/10W 抵抗	
R110	VR7 – 5130 – 103		1	RESISTOR, 10KOHM, 1/10W 抵抗	
R111	VR7 – 5130 – 473		1	RESISTOR, 47KOHM, 1/10W 抵抗	
R112	VR7 – 5130 – 242		1	RESISTOR, 2.4KOHM, 1/10W 抵抗	
R113	VR7 – 5130 – 242		1	RESISTOR, 2.4KOHM, 1/10W 抵抗	
R114	VR7 – 0612 – 000		1	RESISTOR, 200 OHM, 1/10W 抵抗	
R115	VR7 – 0618 – 200		1	RESISTOR, 820 OHM, 1/10W 抵抗	
R116	VR7 – 5130 – 332		1	RESISTOR, 3 3KOHM, 1/10W 抵抗	
R117	VR7 – 0612 – 550		1	RESISTOR, 255 OHM, 1/10W 抵抗	
R118	VR7 – 0615 – 601		1	RESISTOR, 5.6KOHM, 1/10W 抵抗	
R119	VR5 – 6415 – 601		1	RESISTOR, 5.6KOHM, 1/4W 抵抗	
R120	VR5 – 6411 – 002		1	RESISTOR, 10KOHM, 1/4W 抵抗	
R121	VR7 – 0611 – 002		1	RESISTOR, 10KOHM, 1/10W 抵抗	
R122	VR5 – 6411 – 102		1	RESISTOR, 1KOHM, 1/4W 抵抗	
R123	VR5 – 6411 – 431		1	RESISTOR, 1.43KOHM, 1/4W 抵抗	
R124	VR5 – 6418 – 201		1	RESISTOR, 8.2KOHM, 1/4W 抵抗	
R125	VR5 – 6411 – 001		1	RESISTOR, 1KOHM, 1/4W 抵抗	
R126	VR7 – 5130 – 432		1	RESISTOR, 4.3KOHM, 1/10W 抵抗	
R127	VR7 – 5130 – 103		1	RESISTOR, 10KOHM, 1/10W 抵抗	
R128	VR7 – 5130 – 103		1	RESISTOR, 10KOHM, 1/10W 抵抗	
R129	VR7 – 5130 – 103		1	RESISTOR, 10KOHM, 1/10W 抵抗	
R130	VR7 – 5130 – 103		1	RESISTOR, 10KOHM, 1/10W 抵抗	
R131	VR7 – 5130 – 103		1	RESISTOR, 10KOHM, 1/10W 抵抗	

COPYRIGHT © 1995 CANON INC.
CANON NP6012/6012F/6212 REV.1 OCT. 1995 PRINTED IN JAPAN [IMPRIME AU JAPON]

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
930 - R132	VR7 - 5130 - 103		1	RESISTOR, 10KOHM, 1/10W 抵抗	
R133	VR7 - 5130 - 103		1	RESISTOR, 10KOHM, 1/10W 抵抗	
R134	VR7 - 5130 - 103		1	RESISTOR, 10KOHM, 1/10W 抵抗	
R135	VR7 - 5130 - 102		1	RESISTOR, 1KOHM, 1/10W 抵抗	
R136	VR7 - 5130 - 102		1	RESISTOR, 1KOHM, 1/10W 抵抗	
R137	VR7 - 5130 - 102		1	RESISTOR, 1KOHM, 1/10W 抵抗	
R138	VR7 - 5130 - 102		1	RESISTOR, 1KOHM, 1/10W 抵抗	
R148	VR7 - 5130 - 101		1	RESISTOR, 100 OHM, 1/10W 抵抗	
R149	VR7 - 5130 - 472		1	RESISTOR, 4.7KOHM, 1/10W 抵抗	
R150	VR7 - 0611 - 872		1	RESISTOR, 18.7KOHM, 1/10W 抵抗	
R154	VR7 - 5130 - 333		1	RESISTOR, 33KOHM, 1/10W 抵抗	
R158	VR7 - 5130 - 472		1	RESISTOR, 4.7KOHM, 1/10W 抵抗	
R160	VR7 - 5130 - 102		1	RESISTOR, 1KOHM, 1/10W 抵抗	
R161	VR7 - 5130 - 332		1	RESISTOR, 3.3KOHM, 1/10W 抵抗	
R162	VR7 - 5130 - 332		1	RESISTOR, 3.3KOHM, 1/10W 抵抗	
R163	VR5 - 0830 - 101		1	RESISTOR, 100 OHM, 3W 抵抗	
R164	VR7 - 5130 - 221		1	RESISTOR, 220 OHM, 1/10W 抵抗	
R165	VR7 - 5130 - 332		1	RESISTOR, 3.3KOHM, 1/10W 抵抗	
R166	VR7 - 5130 - 332		1	RESISTOR, 3.3KOHM, 1/10W 抵抗	
R167	VR7 - 5130 - 103		1	RESISTOR, 10KOHM, 1/10W 抵抗	
R169	VR7 - 5130 - 103		1	RESISTOR, 10KOHM, 1/10W 抵抗	
R170	VR7 - 5130 - 103		1	RESISTOR, 10KOHM, 1/10W 抵抗	
R171	VR7 - 5130 - 103		1	RESISTOR, 10KOHM, 1/10W 抵抗	
R172	VR7 - 5130 - 103		1	RESISTOR, 10KOHM, 1/10W 抵抗	
R173	VR7 - 5130 - 103		1	RESISTOR, 10KOHM, 1/10W 抵抗	
R174	VR7 - 5130 - 103		1	RESISTOR, 10KOHM, 1/10W 抵抗	
R175	VR7 - 5130 - 103		1	RESISTOR, 10KOHM, 1/10W 抵抗	
R176	VR7 - 5130 - 103		1	RESISTOR, 10KOHM, 1/10W 抵抗	
R177	VR7 - 5130 - 103		1	RESISTOR, 10KOHM, 1/10W 抵抗	
R180	VR7 - 0616 - 801		1	RESISTOR, 6.8KOHM, 1/10W 抵抗	

COPYRIGHT © 1995 CANON INC.

FIGURE & KEY NO	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
930 – R181	VR7 – 0611 – 002		1	RESISTOR, 10KOHM, 1/10W 抵抗	
R182	VR7 – 5130 – 103		1	RESISTOR, 10KOHM, 1/10W 抵抗	
R183	VR7 – 5130 – 103		1	RESISTOR, 10KOHM, 1/10W 抵抗	
R184	VR7 – 0611 – 002		1	RESISTOR, 10KOHM, 1/10W 抵抗	
R185	VR7 – 0611 – 431		1	RESISTOR, 1.43KOHM, 1/10W 抵抗	
R186	VR7 – 0611 – 002		1	RESISTOR, 10KOHM, 1/10W 抵抗	
R187	VR7 – 0611 – 431		1	RESISTOR, 1.43KOHM, 1/10W 抵抗	
R188	VR7 – 5130 – 102		1	RESISTOR, 1KOHM, 1/10W 抵抗	
R189	VR7 – 0614 – 022		1	RESISTOR, 40.2KOHM, 1/10W 抵抗	
R190	VR7 – 5130 – 472		1	RESISTOR, 4.7KOHM, 1/10W 抵抗	
R191	VR7 – 5130 – 103		1	RESISTOR, 10KOHM, 1/10W 抵抗	
R192	VR7 – 5130 – 103		1	RESISTOR, 10KOHM, 1/10W 抵抗	
R193	VR7 – 5130 – 103		1	RESISTOR, 10KOHM, 1/10W 抵抗	
R196	VR7 – 5130 – 472		1	RESISTOR, 4.7KOHM, 1/10W 抵抗	
R197	VR7 – 5130 – 181		1	RESISTOR, 180 OHM, 1/10W 抵抗	
R200	VR7 – 5130 – 181		1	RESISTOR, 180 OHM, 1/10W 抵抗	
R205	VR7 – 5130 – 103		1	RESISTOR, 10KOHM, 1/10W 抵抗	
R206	VR5 – 6413 – 651		1	RESISTOR, 20KOHM, 1/4W 抵抗	
R210	VR7 – 5130 – 102		1	RESISTOR, 1KOHM, 1/10W 抵抗	
R211	VR7 – 5130 – 102		1	RESISTOR, 1KOHM, 1/10W 抵抗	
R212	VR7 – 5130 – 103		1	RESISTOR, 10KOHM, 1/10W 抵抗	
R213	VR7 – 5130 – 103		1	RESISTOR, 10KOHM, 1/10W 抵抗	
R214	VR7 – 5130 – 103		1	RESISTOR, 10KOHM, 1/10W 抵抗	
R215	VR7 – 5130 – 103		1	RESISTOR, 10KOHM, 1/10W 抵抗	
R217	VR7 – 5130 – 181		1	RESISTOR, 180 OHM, 1/10W 抵抗	
R218	VR7 – 5130 – 102		1	RESISTOR, 1KOHM, 1/10W 抵抗	
R219	VR7 – 5130 – 102		1	RESISTOR, 1KOHM, 1/10W 抵抗	
R220	VR7 – 0611 – 431		1	RESISTOR, 1.43KOHM, 1/10W 抵抗	
R224	VR7 – 5130 – 472		1	RESISTOR, 4.7KOHM, 1/10W 抵抗	
R225	VR7 – 5130 – 472		1	RESISTOR, 4.7KOHM, 1/10W 抵抗	

COPYRIGHT © 1995 CANON INC.
CANON NP6012/6012F/6212 REV.1 OCT.1995 PRINTED IN JAPAN [IMPRIME AU JAPON]

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
930 - R226	VR7 - 5130 - 472		1	RESISTOR, 4.7KOHM, 1/10W 抵抗	
R227	VR7 - 5130 - 472		1	RESISTOR, 4.7KOHM, 1/10W 抵抗	
R228	VR7 - 5130 - 103		1	RESISTOR, 10KOHM, 1/10W 抵抗	
R229	VR7 - 5130 - 103		1	RESISTOR, 10KOHM, 1/10W 抵抗	
R230	VR7 - 5130 - 103		1	RESISTOR, 10KOHM, 1/10W 抵抗	
R231	VR7 - 5130 - 473		1	RESISTOR, 47KOHM, 1/10W 抵抗	
R232	VR7 - 5130 - 103		1	RESISTOR, 10KOHM, 1/10W 抵抗	
R233	VR7 - 5130 - 103		1	RESISTOR, 10KOHM, 1/10W 抵抗	
R234	VR7 - 5130 - 103		1	RESISTOR, 10KOHM, 1/10W 抵抗	
R235	VR7 - 5130 - 103		1	RESISTOR, 10KOHM, 1/10W 抵抗	
R236	VR7 - 5130 - 103		1	RESISTOR, 10KOHM, 1/10W 抵抗	
R237	VR7 - 5130 - 103		1	RESISTOR, 10KOHM, 1/10W 抵抗	
R238	VR7 - 5130 - 103		1	RESISTOR, 10KOHM, 1/10W 抵抗	
R239	VR7 - 5130 - 103		1	RESISTOR, 10KOHM, 1/10W 抵抗	
R240	VR7 - 5130 - 103		1	RESISTOR, 10KOHM, 1/10W 抵抗	
R241	VR7 - 5130 - 103		1	RESISTOR, 10KOHM, 1/10W 抵抗	
R242	VR7 - 5130 - 103		1	RESISTOR, 10KOHM, 1/10W 抵抗	
R243	VR7 - 5130 - 103		1	RESISTOR, 10KOHM, 1/10W 抵抗	
R244	VR7 - 5130 - 472		1	RESISTOR, 4.7KOHM, 1/10W 抵抗	
R245	VR7 - 5130 - 472		1	RESISTOR, 4.7KOHM, 1/10W 抵抗	
R246	VR7 - 5130 - 472		1	RESISTOR, 4.7KOHM, 1/10W 抵抗	
R248	VR7 - 5130 - 103		1	RESISTOR, 10KOHM, 1/10W 抵抗	
R249	VR7 - 5130 - 103		1	RESISTOR, 10KOHM, 1/10W 抵抗	
R250	VR7 - 5130 - 472		1	RESISTOR, 4.7KOHM, 1/10W 抵抗	
R263	VR5 - 6411 - 002		1	RESISTOR, 10KOHM, 1/4W 抵抗	
R264	VR5 - 6413 - 901		1	RESISTOR, 3.9KOHM, 1/4W 抵抗	
R265	VR5 - 3680 - 102		1	RESISTOR, 1KOHM, 1/4W 抵抗	
R266	VR5 - 3680 - 101		1	RESISTOR, 100 OHM, 1/4W 抵抗	
R267	VR7 - 0616 - 980		1	RESISTOR, 698 OHM, 1/10W 抵抗	
R269	VR7 - 5130 - 102		1	RESISTOR, 1KOHM, 1/10W 抵抗	

COPYRIGHT © 1995 CANON INC.

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
930 - R270	VR7 — 5130 — 562		1	RESISTOR, 5.6KOHM, 1/10W 抵抗	
R271	VR7 — 5130 — 103		1	RESISTOR, 10KOHM, 1/10W 抵抗	
R272	VR7 — 5130 — 472		1	RESISTOR, 4.7KOHM, 1/10W 抵抗	
R273	VR7 — 5130 — 103		1	RESISTOR, 10KOHM, 1/10W 抵抗	
R275	VR7 — 5130 — 333		1	RESISTOR, 33KOHM, 1/10W 抵抗	
R276	VR7 — 5130 — 332		1	RESISTOR, 3.3KOHM, 1/10W 抵抗	
R277	VR7 — 0612 — 701		1	RESISTOR, 2.7KOHM, 1/10W 抵抗	
R278	VR7 — 5130 — 102		1	RESISTOR, 1KOHM, 1/10W 抵抗	
R279	VR7 — 5130 — 102		1	RESISTOR, 1KOHM, 1/10W 抵抗	
R280	VR7 — 5130 — 102		1	RESISTOR, 1KOHM, 1/10W 抵抗	
R281	VR7 — 5130 — 103		1	RESISTOR, 10KOHM, 1/10W 抵抗	
R282	VR7 — 5130 — 103		1	RESISTOR, 10KOHM, 1/10W 抵抗	
R286	VR7 — 5130 — 151		1	RESISTOR, 150 OHM, 1/10W 抵抗	
R288	VR7 — 0611 — 272		1	RESISTOR, 12.7KOHM, 1/10W 抵抗	
R292	VR7 — 5130 — 474		1	RESISTOR, 470KOHM, 1/10W 抵抗	
R293	VR7 — 5130 — 472		1	RESISTOR, 4.7KOHM, 1/10W 抵抗	
R294	VR7 — 5130 — 474		1	RESISTOR, 470KOHM, 1/10W 抵抗	
R295	VR7 — 5130 — 332		1	RESISTOR, 3.3KOHM, 1/10W 抵抗	
R296	VR7 — 5130 — 222		1	RESISTOR, 2.2KOHM, 1/10W 抵抗	
R297	VR7 — 5130 — 474		1	RESISTOR, 470KOHM, 1/10W 抵抗	
R298	VR7 — 5130 — 474		1	RESISTOR, 470KOHM, 1/10W 抵抗	
R299	VR7 — 5130 — 472		1	RESISTOR, 4.7KOHM, 1/10W 抵抗	
R300	VR7 — 5130 — 472		1	RESISTOR, 4.7KOHM, 1/10W 抵抗	
R301	VR7 — 5130 — 474		1	RESISTOR, 470KOHM, 1/10W 抵抗	
R302	VR7 — 5130 — 474		1	RESISTOR, 470KOHM, 1/10W 抵抗	
R303	VR7 — 5130 — 222		1	RESISTOR, 2.2KOHM, 1/10W 抵抗	
R304	VR7 — 5130 — 103		1	RESISTOR, 10KOHM, 1/10W 抵抗	
R305	VR7 — 0614 — 991		1	RESISTOR, 4.99KOHM, 1/10W 抵抗	
R306	VR7 — 0612 — 742		1	RESISTOR, 27.4KOHM, 1/10W 抵抗	
R308	VR7 — 5130 — 331		1	RESISTOR, 330 OHM, 1/10W 抵抗	

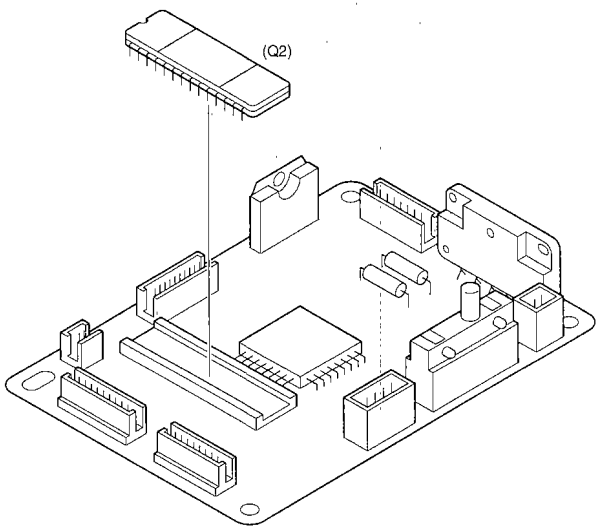
COPYRIGHT © 1995 CANON INC.

FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
930 – R309	VR5 – 6411 – 001		1	RESISTOR, 1KOHM, 1/4W 抵抗	
R310	VR5 – 6411 – 000		1	RESISTOR, 100 OHM, 1/4W 抵抗	
R311	VR7 – 5130 – 474		1	RESISTOR, 470KOHM, 1/10W 抵抗	
R312	VR7 – 5130 – 474		1	RESISTOR, 470KOHM, 1/10W 抵抗	
R313	VR7 – 0430 – 271		1	RESISTOR, 270 OHM, 1/8W 抵抗	
R314	VR7 – 0430 – 271		1	RESISTOR, 270 OHM, 1/8W 抵抗	
R315	VR7 – 0430 – 271		1	RESISTOR, 270 OHM, 1/8W 抵抗	
R316	VR7 – 5130 – 562		1	RESISTOR, 5.6KOHM, 1/10W 抵抗	
VR101	VR7 – 2770 – 103		1	RESISTOR, VARIABLE, 10KOHM 可変抵抗	
VR102	VR7 – 2770 – 103		1	RESISTOR, VARIABLE, 10KOHM 可変抵抗	
VR103	VR7 – 2770 – 473		1	RESISTOR, VARIABLE, 47KOHM 可変抵抗	
VR107	VR9 – 3619 – 000		1	RESISTOR, VARIABLE, 10KOHM 可変抵抗	
X101	FH6 – 3494 – 000		1	OSCILLATOR, CRYSTAL 水晶振動子	
ZD101	WA1 – 5423 – 000		1	DIODE, ZENER, HZS9C2 ツェナー ダイオード	
ZD102	WA1 – 5071 – 000		1	DIODE, ZENER, HZS5B2 ツェナー ダイオード	
ZD103	WA1 – 5071 – 000		1	DIODE, ZENER, HZS5B2 ツェナー ダイオード	
ZD104	WA1 – 5071 – 000		1	DIODE, ZENER, HZS5B2 ツェナー ダイオード	

COPYRIGHT © 1995 CANON INC.

FIGURE 935

DF DC CONTROLLER PCB ASSEMBLY
(NP6012F/6212)
DF DCコントローラ回路基板
(NP6012F／6212)



COPYRIGHT © 1995 CANON INC.
CANON NP6012/6012F/6212 REV.0 OCT. 1995 PRINTED IN JAPAN (IMPRIME AU JAPON)

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
935 -	FG2 - 7466 - 000		1	DF DC CONTROLLER PCB ASSEMBLY DF DCコントローラ回路基板	NP6012F/6212
C 1	VC1 - 2101 - 477		1	CAPACITOR, 470UF, 10V コンデンサ	
C 2	VC1 - 2351 - 477		1	CAPACITOR, 470UF, 35V コンデンサ	
C 3	VC1 - 2501 - 475		1	CAPACITOR, 4.7UF, 50V コンデンサ	
C 4	VW4 - 2027 - 104		1	CAPACITOR, 0.1UF, 25V コンデンサ	
C 5	VW4 - 2835 - 102		1	CAPACITOR, 1000PF, 50V コンデンサ	
C 6	VW4 - 2231 - 509		1	CAPACITOR, 5PF, 50V コンデンサ	
C 7	VW4 - 2231 - 509		1	CAPACITOR, 5PF, 50V コンデンサ	
C 8	VC5 - 9610 - 105		1	CAPACITOR, 1UF, 50V コンデンサ	
C 9	VW4 - 2027 - 104		1	CAPACITOR, 0.1UF, 25V コンデンサ	
C 10	VW4 - 2027 - 104		1	CAPACITOR, 0.1UF, 25V コンデンサ	
C 11	VW4 - 2235 - 471		1	CAPACITOR, 470PF, 50V コンデンサ	
C 12	VW4 - 2235 - 471		1	CAPACITOR, 470PF, 50V コンデンサ	
C 13	VW4 - 2835 - 222		1	CAPACITOR, 2200PF, 50V コンデンサ	
C 14	VW4 - 2835 - 222		1	CAPACITOR, 2200PF, 50V コンデンサ	
C 16	VW4 - 2835 - 102		1	CAPACITOR, 1000PF, 50V コンデンサ	
C 17	VW4 - 2835 - 102		1	CAPACITOR, 1000PF, 50V コンデンサ	
C 18	VW4 - 2835 - 102		1	CAPACITOR, 1000PF, 50V コンデンサ	
C 19	VW4 - 2234 - 101		1	CAPACITOR, 100PF, 25V コンデンサ	
C 20	VW4 - 2234 - 101		1	CAPACITOR, 100PF, 25V コンデンサ	
C 21	VW4 - 2835 - 102		1	CAPACITOR, 1000PF, 50V コンデンサ	
CB 1	WD3 - 0040 - 000		1	BREAKER, CIRCUIT サーキット ブレーカ	
D 1	WA1 - 0887 - 000		1	DIODE, 1SS270A ダイオード	
D 2	WA1 - 0887 - 000		1	DIODE, 1SS270A ダイオード	
D 3	WA1 - 0887 - 000		1	DIODE, 1SS270A ダイオード	
J 1	VS1 - 5474 - 004		1	CONNECTOR, 4P, MALE コネクタ (オス)	
J 2	VS1 - 1028 - 008		1	CONNECTOR, 8P, MALE コネクタ (オス)	
J 3	VS1 - 1028 - 007		1	CONNECTOR, 7P, MALE コネクタ (オス)	
J 5	VS1 - 1028 - 009		1	CONNECTOR, 9P, MALE コネクタ (オス)	
J 6	VS1 - 5474 - 002		1	CONNECTOR, 2P, MALE コネクタ (オス)	

COPYRIGHT © 1995 CANON INC.

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
935 - JP 1	VV1 - 7000 - 000		1	JUMPER, CHIP チップ ジャンパ	
L 1	WE2 - 5032 - 000		1	COIL, CHOKE チョーク コイル	
PSW	WC2 - 5057 - 000		1	SWITCH, TACT タクト スイッチ	
Q 1	WA3 - 8310 - 000		1	IC, HD6413238F10, MICRO COMP. マイコンIC	
Q 2	FF3 - 1069 - 000		1	IC, M27C256B-15F1, MASK-ROM マスクーROM	
	WA9 - 0058 - 000		1	SOCKET, IC, DILB28P-8J ICソケット	
Q 3	WA4 - 0928 - 000		1	IC, MB3773PF, RESET リセット IC	
Q 4	WA4 - 5214 - 000		1	IC, SLA7024M, MOTOR DRIVER ドライバ IC	
Q 5	WA4 - 1269 - 000		1	IC, TA8428K, MOTOR DRIVER ドライバ IC	
Q 6	WA3 - 4465 - 000		1	IC, TC74HC14AF, TRIG. INVERTER トリガ インバータ IC	
Q 9	WA2 - 0834 - 000		1	TRANSISTOR, RN1402 トランジスタ	
Q 10	WA2 - 0834 - 000		1	TRANSISTOR, RN1402 トランジスタ	
Q 11	WA2 - 0834 - 000		1	TRANSISTOR, RN1402 トランジスタ	
R 1	VR7 - 3680 - 029		1	RESISTOR, 0.2 OHM, 1/10W ヒューズ抵抗	
R 2	VV1 - 7118 - 182		1	RESISTOR, 1.8KOHM, 1/10W 抵抗	
R 3	VV1 - 7118 - 103		1	RESISTOR, 10KOHM, 1/10W 抵抗	
R 4	VV1 - 7118 - 103		1	RESISTOR, 10KOHM, 1/10W 抵抗	
R 5	VV1 - 7118 - 103		1	RESISTOR, 10KOHM, 1/10W 抵抗	
R 6	VV1 - 7118 - 103		1	RESISTOR, 10KOHM, 1/10W 抵抗	
R 8	VV1 - 7118 - 391		1	RESISTOR, 390 OHM, 1/10W 抵抗	
R 9	VV1 - 7118 - 101		1	RESISTOR, 100 OHM, 1/10W 抵抗	
R 10	VV1 - 7118 - 473		1	RESISTOR, 47KOHM, 1/10W 抵抗	
R 11	VV1 - 7118 - 473		1	RESISTOR, 47KOHM, 1/10W 抵抗	
R 12	VV1 - 7118 - 222		1	RESISTOR, 2.2KOHM, 1/10W 抵抗	
R 13	VV1 - 7118 - 222		1	RESISTOR, 2.2KOHM, 1/10W 抵抗	
R 14	VR5 - 0790 - 109		1	RESISTOR, 1 OHM, 2W 抵抗	
R 15	VR5 - 0790 - 109		1	RESISTOR, 1 OHM, 2W 抵抗	
R 19	VV1 - 7118 - 223		1	RESISTOR, 22KOHM, 1/10W 抵抗	
R 20	VV1 - 7118 - 271		1	RESISTOR, 270 OHM, 1/10W 抵抗	
R 21	VV1 - 7118 - 223		1	RESISTOR, 22KOHM, 1/10W 抵抗	

COPYRIGHT © 1995 CANON INC.
CANON NP6012/6012F/6212 REV.0 OCT. 1995 PRINTED IN JAPAN [IMPRIME AU JAPON]

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
935 - R 22	VV1 - 7118 - 271		1	RESISTOR, 270 OHM, 1/10W 抵抗	
R 23	VV1 - 7118 - 223		1	RESISTOR, 22KOHM, 1/10W 抵抗	
R 24	VV1 - 7118 - 271		1	RESISTOR, 270 OHM, 1/10W 抵抗	
R 25	VV1 - 7118 - 103		1	RESISTOR, 10KOHM, 1/10W 抵抗	
R 26	VV1 - 7118 - 103		1	RESISTOR, 10KOHM, 1/10W 抵抗	
R 27	VV1 - 7118 - 103		1	RESISTOR, 10KOHM, 1/10W 抵抗	
R 28	VV1 - 7118 - 103		1	RESISTOR, 10KOHM, 1/10W 抵抗	
R 29	VV1 - 7118 - 471		1	RESISTOR, 470 OHM, 1/10W 抵抗	
R 30	VV1 - 7118 - 102		1	RESISTOR, 1KOHM, 1/10W 抵抗	
R 31	VV1 - 7118 - 222		1	RESISTOR, 2.2KOHM, 1/10W 抵抗	
R 32	VV1 - 7118 - 103		1	RESISTOR, 10KOHM, 1/10W 抵抗	
R 33	VV1 - 7118 - 471		1	RESISTOR, 470 OHM, 1/10W 抵抗	
R 34	VV1 - 7118 - 102		1	RESISTOR, 1KOHM, 1/10W 抵抗	
R 35	VV1 - 7118 - 222		1	RESISTOR, 2.2KOHM, 1/10W 抵抗	
R 36	VV1 - 7118 - 103		1	RESISTOR, 10KOHM, 1/10W 抵抗	
R 37	VV1 - 7118 - 103		1	RESISTOR, 10KOHM, 1/10W 抵抗	
R 38	VV1 - 7118 - 103		1	RESISTOR, 10KOHM, 1/10W 抵抗	
R 39	VV1 - 7118 - 103		1	RESISTOR, 10KOHM, 1/10W 抵抗	
R 41	VV1 - 7118 - 102		1	RESISTOR, 1KOHM, 1/10W 抵抗	
R 42	VV1 - 7118 - 102		1	RESISTOR, 1KOHM, 1/10W 抵抗	
R 43	VV1 - 7118 - 102		1	RESISTOR, 1KOHM, 1/10W 抵抗	
R 44	VV1 - 7118 - 103		1	RESISTOR, 10KOHM, 1/10W 抵抗	
R 45	VV1 - 7118 - 103		1	RESISTOR, 10KOHM, 1/10W 抵抗	
SW 1	WC8 - 0222 - 000		1	SWITCH, DIP DIP スイッチ	
SW 2	WC5 - 5115 - 000		1	SWITCH, ROTARY ロータリ スイッチ	
X 1	WK2 - 0516 - 000		1	OSCILLATOR, CERAMIC セラミック振動子	
ZD 1	WA1 - 1047 - 000		1	DIODE, ZENER, HZS16-2 ツェナー ダイオード	

COPYRIGHT © 1995 CANON INC.

FIGURE 940 NOISE FILTER PCB ASSEMBLY
ノイズフィルタ回路基板

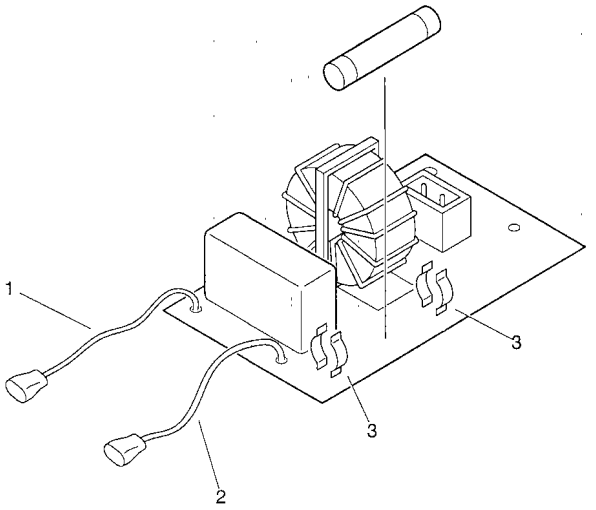
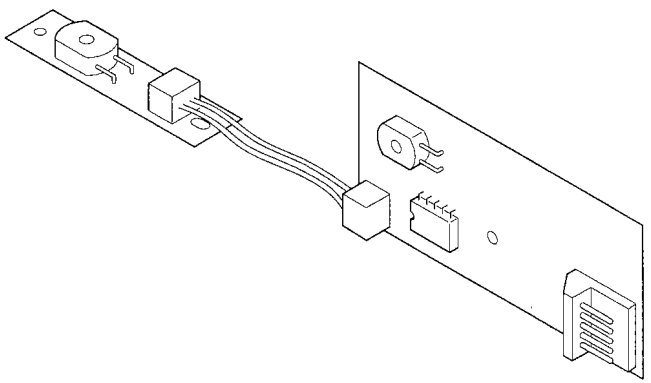


FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
940 –	FG5 – 3543 – 000		1	NOISE FILTER PCB ASSEMBLY ノイズ フィルタ カイロ キバン	115V
	FG5 – 3544 – 000		1	NOISE FILTER PCB ASSEMBLY ノイズ フィルタ カイロ キバン	220/240V
1	FF2 – 9769 – 000		1	CABLE, INLET, 1 ニュウリョク ソクセン (1)	
2	FF2 – 9770 – 000		1	CABLE, INLET, 2 ニュウリョク ソクセン (2)	
3	WD9 – 5028 – 000		2	HOLDER, FUSE ヒューズ ホルダ	
C501	VC7 – 1770 – 474		1	CAPACITOR, 0.47UF, 250V コンデンサ	
C502	VC7 – 1770 – 224		1	CAPACITOR, 0 22UF, 250V コンデンサ	
C503	VC9 – 1595 – 000		1	CAPACITOR, 3300PF, 125V コンデンサ	
C504	VC9 – 1595 – 000		1	CAPACITOR, 3300PF, 125V コンデンサ	
FU501	VD7 – 0461 – 202		1	FUSE, 125V 12A ヒューズ	115V
	VD7 – 1506 – 301		1	FUSE, 250V ヒューズ	220/240V
J501	WS3 – 5355 – 000		1	HOUSING, 2P, FEMALE ハウジング (メス)	
L501	FH9 – 0484 – 000		1	NOISE FILTER ノイズ フィルタ	115V
	VL5 – 0390 – 086		1	NOISE FILTER ノイズ フィルタ	220/240V
R501	VR5 – 2650 – 105		1	RESISTOR, 1MOHM, 1/2W 抵抗	

COPYRIGHT © 1995 CANON INC.
CANON NP6012/6012F/6212 REV.1 OCT. 1995 PRINTED IN JAPAN [IMPRIME AU JAPON]

FIGURE 970 INTENSITY / AE SENSOR PCB ASSEMBLY
光量／AEセンサ回路基板

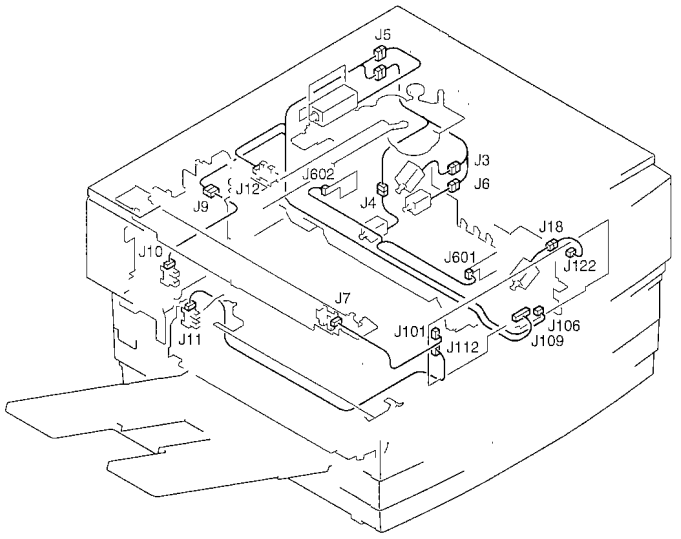


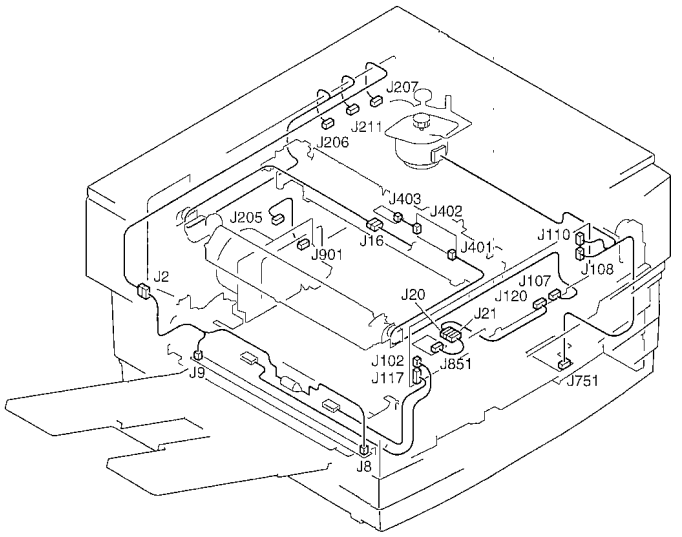
COPYRIGHT © 1995 CANON INC.
CANON NP6012/6012F/6212 REV.1 OCT. 1995 PRINTED IN JAPAN [IMPRIME AU JAPON]

FIGURE & KEY NO	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
970 -	FG5 - 3541 - 000		1	INTENSITY/AE SENSOR PCB ASS'Y 光量/AEセンサ 回路基板	
C401	VC5 - 3340 - 106		1	CAPACITOR, 10UF, 35V コンデンサ	
C402	VC9 - 5344 - 000		1	CAPACITOR, 0.02UF, 50V コンデンサ	
C403	VC6 - 3000 - 104		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C404	VC6 - 3000 - 104		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C405	VC6 - 3000 - 104		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C406	VC6 - 3000 - 473		1	CAPACITOR, 0.047UF, 50V コンデンサ	
J401	VS1 - 0715 - 005		1	CONECTOR, 5P, MALE コネクタ (オス)	
PD401	WG3 - 0055 - 000		1	PHOTO-DIODE, BS520 フォトダイオード	
PD402	WG3 - 0055 - 000		1	PHOTO-DIODE, BS520 フォトダイオード	
Q401	WA4 - 5180 - 000		1	IC, NJM2082D, OP AMP オペ アンプ	
R401	VR5 - 6413 - 901		1	RESISTOR, 3.9KOHM, 1/4W 抵抗	
R402	VR5 - 6411 - 692		1	RESISTOR, 16.9KOHM, 1/4W テイコウ	
R403	VR5 - 6411 - 623		1	RESISTOR, 162KOHM, 1/4W テイコウ	
R406	VR5 - 6414 - 991		1	RESISTOR, 4.99KOHM, 1/4W テイコウ	
R407	VR5 - 6413 - 481		1	RESISTOR, 3.48KOHM, 1/4W テイコウ	
R408	VR5 - 6411 - 004		1	RESISTOR, 1MOHM, 1/4W テイコウ	
R409	VR5 - 6411 - 000		2	RESISTOR, 100 OHM, 1/4W 抵抗	

COPYRIGHT © 1995 CANON INC.

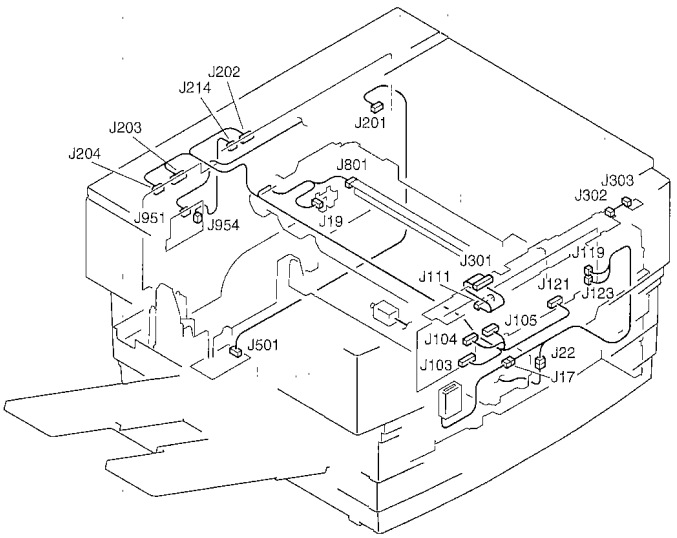
FIGURE B LIST OF CONNECTORS(1/2)
コネクター覧(1/2)

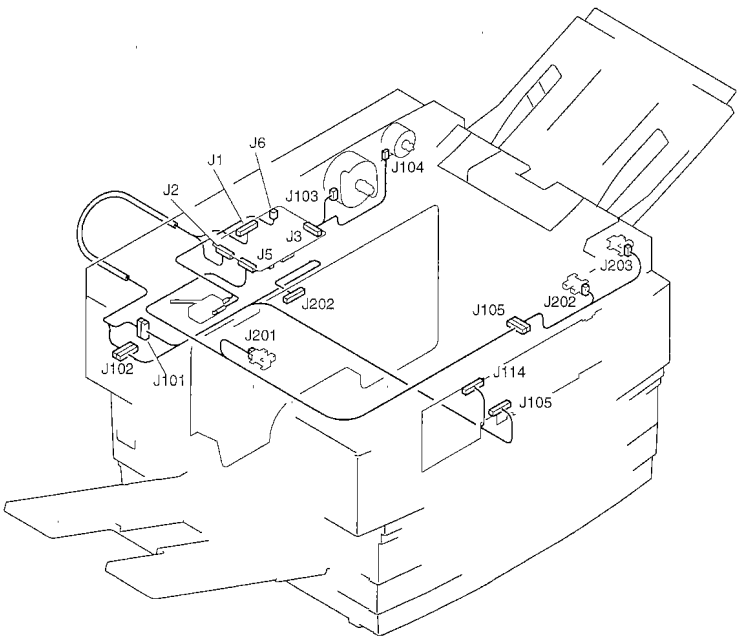




COPYRIGHT © 1995 CANON INC.
CANON NP6012/6012F/6212 REV.1 OCT. 1995 PRINTED IN JAPAN [IMPRIME AU JAPON]

FIGURE B LIST OF CONNECTORS(2/2)
コネクター覧(2/2)





COPYRIGHT © 1995 CANON INC.

FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
B -	NPN		RF	LIST OF CONNECTORS コネクター覧	
J 1	PCB			DF DC CONTROLLER DF DCコントローラ	NP6012F/6212
	VS3 - 5083 - 004		1	CONNECTOR, 4P, FEMALE コネクタ (メス)	NP6012F/6212
	WS3 - 5160 - 000		4	SOCKET CONTACT, 18-24AWG ソケット コンタクト	NP6012F/6212
J 2	WS3 - 5353 - 000		1	CONNECTOR, 2P, MALE コネクタ (オス)	
	WS3 - 5352 - 000		1	CONNECTOR, 2P, FEMALE コネクタ (メス)	
	WS3 - 5354 - 000		2	PIN CONTACT, 16-20AWG ピン コンタクト	
	WS3 - 5174 - 000		2	SOCKET CONTACT, 16-20AWG ソケット コンタクト	
	PCB			DF DC CONTROLLER DF DCコントローラ	NP6012F/6212
	VS1 - 0842 - 008		1	CONNECTOR, 8P, FEMALE コネクタ (メス)	NP6012F/6212
J 3	NPN			PAPER PICK-UP CLUTCH SOLENOID 給紙クラッチ ソレノイド	SL1
	VS1 - 0842 - 002		1	CONNECTOR, 2P, FEMALE コネクタ (メス)	
	VS1 - 5057 - 002		1	CONNECTOR, SNAP TIGHT チュウケイ コネクタ	
	PCB			DF DC CONTROLLER DF DCコントローラ	NP6012F/6212
	VS1 - 0842 - 007		1	CONNECTOR, 7P, FEMALE コネクタ (メス)	NP6012F/6212
J 4	NPN			REGIST. CLUTCH SOLENOID レジスト クラッチ ソレノイド	SL2
	VS1 - 0842 - 002		1	CONNECTOR, 2P, FEMALE コネクタ (メス)	
	VS1 - 5057 - 002		1	CONNECTOR, SNAP TIGHT チュウケイ コネクタ	
J 5	NPN			LENS DRIVE SOLENOID レンズ駆動 ソレノイド	SL3
	VS1 - 0842 - 002		1	CONNECTOR, 2P, FEMALE コネクタ (メス)	
	VS1 - 5057 - 002		1	CONNECTOR, SNAP TIGHT チュウケイ コネクタ	
	PCB			DF DC CONTROLLER DF DCコントローラ	NP6012F/6212
	VS1 - 0842 - 009		1	CONNECTOR, 9P, FEMALE コネクタ (メス)	NP6012F/6212
J 6	NPN			MULTI FEED P. PICK-UP SOLENOID マルチフィード給紙 ソレノイド	SL4
	VS1 - 0842 - 003		1	CONNECTOR, 3P, FEMALE コネクタ (メス)	
	VS1 - 5057 - 003		1	CONNECTOR, SNAP TIGHT チュウケイ コネクタ	
	PCB			DF DC CONTROLLER DF DCコントローラ	NP6012F/6212
	VS3 - 5083 - 002		1	CONNECTOR, 2P, FEMALE コネクタ (メス)	NP6012F/6212
J 7	NPN			SCANNER HOME POSITION SENSOR 光学ホームポジション検知	PS1
	VS1 - 0842 - 003		1	CONNECTOR, 3P, FEMALE コネクタ (メス)	

COPYRIGHT © 1995 CANON INC.

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
B－J 8	NPN			FIXING HEATER 定着ヒータ	H1
	FH2－5796－000		1	SLEEVE, CONTACT コンタクト スリーブ	
	FH2－5795－000		1	SOCKET CONTACT, 18-22AWG ソケット コンタクト	
J 9	NPN			FIXING HEATER 定着ヒータ	H1
	VS1－0842－003		2	CONNECTOR, 3P, FEMALE コネクタ （メス）	
	VS1－5057－003		1	CONNECTOR, SNAP TIGHT チュウケイ コネクタ	
	FH2－5796－000		1	SLEEVE, CONTACT コンタクト スリーブ	
	FH2－5795－000		1	SOCKET CONTACT, 18-22AWG ソケット コンタクト	
J 10	NPN			PAPER DELIVERY SENSOR 排紙紙検知	PS3
	VS1－0842－003		1	CONNECTOR, 3P, FEMALE コネクタ （メス）	
J 11	NPN			FIXING FILM SENSOR 定着フィルム片寄り検知	PS4
	VS1－0842－003		1	CONNECTOR, 3P, FEMALE コネクタ （メス）	
J 12	NPN			LENS HOME POSITION SENSOR レンズ ホームポジション検知	PS2
	VS1－0842－003		1	CONNECTOR, 3P, FEMALE コネクタ （メス）	
J 16	NPN			DOCUMENT LAMP HEATER 原稿照明ランプ ヒータ	H2
	VS3－0053－002		1	CONNECTOR, 2P, FEMALE コネクタ（メス）	
	WS4－0218－000		2	SOCKET CONTACT, 22-26AWG ソケット コンタクト	
J 19	NPN			WASTE TONER SENSOR 廃トナー検知	PS5
	VS1－0842－003		1	CONNECTOR, 3P, FEMALE コネクタ （メス）	
J 20	WS6－5092－000		1	CONNECTOR, 14P, MALE コネクタ （オス）	
	VS1－0842－007		1	CONNECTOR, 7P, FEMALE コネクタ （メス）	
J 21	WS6－5092－000		1	CONNECTOR, 14P, MALE コネクタ （オス）	
	VS1－0842－007		1	CONNECTOR, 7P, FEMALE コネクタ （メス）	
J 22	VS1－0842－003		2	CONNECTOR, 3P, FEMALE コネクタ （メス）	
	VS1－5057－003		1	CONNECTOR, SNAP TIGHT チュウケイ コネクタ	
J101	PCB			DC CONTROLLER DC コントローラ	
	VS1－0842－003		1	CONNECTOR, 3P, FEMALE コネクタ （メス）	
	VS1－0279－004		1	CONNECTOR, 4P, MALE コネクタ （オス）	NP6012F/6212
	VS3－0108－004		1	CONNECTOR, 4P, FEMALE コネクタ （メス）	NP6012F/6212
	WS3－0885－000		4	PIN CONTACT, 20-30AWG ピン コンタクト	NP6012F/6212

COPYRIGHT © 1995 CANON INC.

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
B - J101	WS4 - 0181 - 000		4	PIN CONTACT ピン コンタクト	NP6012F/6212
J102	PCB			DC CONTROLLER DC コントローラ	
	NPN			CENTER FIXING THERMISTOR 定着中央サーミスタ	TH1
	VS1 - 0842 - 008		2	CONNECTOR, 8P, FEMALE コネクタ (メス)	NP6012F/6212
	VS1 - 5057 - 008		1	CONNECTOR, SNAP TIGHT チュウケイ コネクタ	NP6012F/6212
J103	PCB			DC CONTROLLER DC コントローラ	
	VS1 - 0842 - 012		1	CONNECTOR, 12P, FEMALE コネクタ (メス)	
	NPN			BELT DRIVE MOTOR ベルト駆動モータ	NP6012F/6212 M1
	VS1 - 0842 - 005		1	CONNECTOR, 5P, FEMALE コネクタ (メス)	NP6012F/6212
J104	PCB			DC CONTROLLER DC コントローラ	
	VS1 - 0842 - 007		1	CONNECTOR, 7P, FEMALE コネクタ (メス)	
	NPN			PICK-UP DRIVE MOTOR 給紙駆動モータ	NP6012F/6212 M2
	VS1 - 0842 - 002		1	CONNECTOR, 2P, FEMALE コネクタ (メス)	NP6012F/6212
J105	PCB			DC CONTROLLER DC コントローラ	
	VS1 - 0279 - 006		1	CONNECTOR, 6P, FEMALE コネクタ (メス)	
	WS3 - 0437 - 000		6	SOCKET CONTACT, 20-30AWG ソケット コンタクト	
	VS1 - 0842 - 006		2	CONNECTOR, 6P, FEMALE コネクタ (メス)	NP6012F/6212
	VS1 - 5057 - 006		1	CONNECTOR, SNAP TIGHT チュウケイ コネクタ	NP6012F/6212
J106	PCB			DC CONTROLLER DC コントローラ	
	VS1 - 5824 - 002		1	CONNECTOR, 2P, MALE コネクタ (オス)	
	WS3 - 5358 - 000		2	SOCKET CONTACT, 22-26AWG ソケット コンタクト	
J107	PCB			DC CONTROLLER DC コントローラ	
	VS1 - 0279 - 005		1	CONNECTOR, 5P, MALE コネクタ (オス)	
	WS3 - 0437 - 000		5	SOCKET CONTACT, 20-30AWG ソケット コンタクト	
J108	PCB			DC CONTROLLER DC コントローラ	
	VS1 - 0842 - 005		1	CONNECTOR, 5P, FEMALE コネクタ (メス)	
J109	PCB			DC CONTROLLER DC コントローラ	
	VS1 - 0842 - 014		1	CONNECTOR, 14P, FEMALE コネクタ (メス)	
J110	PCB			DC CONTROLLER DC コントローラ	
	NPN			SCANNER MOTOR 光学モータ	M2

COPYRIGHT © 1995 CANON INC.

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
B－J111	PCB			DC CONTROLLER DC コントローラ	
	FH2－6231－000		1	CABLE, FLAT フラット ケーブル	
J112	PCB			DC CONTROLLER DC コントローラ	
	VS1－0842－004		1	CONNECTOR, 4P, FEMALE コネクタ (メス)	
J114	PCB			DC CONTROLLER DC コントローラ	NP6012F/6212
	VS1－0842－008		1	CONNECTOR, 8P, FEMALE コネクタ (メス)	NP6012F/6212
	VS1－5057－008		1	CONNECTOR, SNAP TIGHT チュウケイ コネクタ	NP6012F/6212
J117	PCB			DC CONTROLLER DC コントローラ	
	NPN			FIXING SIDE THERMISTOR 定着端部サーミスタ	TH2
J119	PCB			DC CONTROLLER DC コントローラ	
	NPN			TOTAL COUNTER トータル カウンタ	CNT1
J120	PCB			DC CONTROLLER DC コントローラ	
	VS1－0842－006		1	CONNECTOR, 6P, FEMALE コネクタ (メス)	
J121	PCB			DC CONTROLLER DC コントローラ	
	VS1－0842－005		1	CONNECTOR, 5P, FEMALE コネクタ (メス)	
J122	PCB			DC CONTROLLER DC コントローラ	
	NPN			BLANK EXPOSURE SOLENOID ブランク露光 ソレノイド	SL5
J123	PCB			DC CONTROLLER DC コントローラ	
	NPN			TRANSFER SOLENOID 転写台 ソレノイド	SL6
J201	PCB			DC POWER SUPPLY DC 電源	
	WS3－5175－000		1	CONNECTOR, 2P, FEMALE コネクタ (メス)	
	WS3－5174－000		2	SOCKET CONTACT, 16-20AWG ソケット コンタクト	
	NPN			PAPER DELIVERY SENSOR 排紙センサ	NP6012F/6212 PI1
	VS1－0842－003		1	CONNECTOR, 3P, FEMALE コネクタ (メス)	NP6012F/6212
J202	PCB			DC POWER SUPPLY DC 電源	
	VS3－5083－006		1	CONNECTOR, 6P, FEMALE コネクタ (メス)	
	WS3－5160－000		6	SOCKET CONTACT, 18-24AWG ソケット コンタクト	
	NPN			REGISTRATION SENSOR レジスト センサ	NP6012F/6212 PI2
	VS1－0842－003		1	CONNECTOR, 3P, FEMALE コネクタ (メス)	NP6012F/6212
J203	PCB			DC POWER SUPPLY DC 電源	

COPYRIGHT © 1995 CANON INC.

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
B- J203	VS1-0842-012		1	CONNECTOR, 12P, FEMALE コネクタ (メス)	
	NPN			PAPER PICK-UP SENSOR 給紙センサ	NP6012F/6212 PI3
	VS1-0852-003		1	CONNECTOR, 3P, FEMALE コネクタ (メス)	NP6012F/6212
J204	PCB			DC POWER SUPPLY DC 電源	
	VS1-0842-007		1	CONNECTOR, 7P, FEMALE コネクタ (メス)	
J205	PCB			DC POWER SUPPLY DC 電源	
	VS1-0861-006		1	CONNECTOR, 6P, MALE コネクタ (オス)	
J206	PCB			DC POWER SUPPLY DC 電源	
	VS1-0279-006		1	CONNECTOR, 6P, FEMALE コネクタ (メス)	
	WS3-0437-000		4	SOCKET CONTACT, 20-30AWG ソケット コンタクト	
J207	PCB			DC POWER SUPPLY DC 電源	
	WS3-5175-000		1	CONNECTOR, 2P, FEMALE コネクタ (メス)	
	WS3-5174-000		2	SOCKET CONTACT, 16-20AWG ソケット コンタクト	
J211	PCB			DC POWER SUPPLY DC 電源	
	VS3-5083-003		1	CONNECTOR, 3P, FEMALE コネクタ (メス)	
	WS3-5160-000		2	SOCKET CONTACT, 18-24AWG ソケット コンタクト	
J214	PCB			DC POWER SUPPLY DC 電源	
	VS1-0861-003		1	CONNECTOR, 3P, FEMALE コネクタ (メス)	
J301	PCB			CONTROL PANEL 操作	
	FH2-6231-000		1	CABLE, FLAT フラット ケーブル	
J302	PCB			CONTROL PANEL 操作	
	VS1-0978-002		1	CONNECTOR, 2P, MALE コネクタ (オス)	
J303	PCB			CONTROL PANEL 操作	
	VS1-0978-002		1	CONNECTOR, 2P, MALE コネクタ (オス)	
J401	PCB			INTENSITY / AE SENSOR 光量/AEセンサ	
	VS1-0279-005		1	CONNECTOR, 5P, MALE コネクタ (オス)	
	WS3-0437-000		5	SOCKET CONTACT, 20-30AWG ソケット コンタクト	
J402	PCB			INTENSITY / AE SENSOR 光量/AEセンサ	
	VS1-0978-002		1	CONNECTOR, 2P, MALE コネクタ (オス)	
J403	PCB			INTENSITY / AE SENSOR 光量/AEセンサ	

COPYRIGHT © 1995 CANON INC.

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
B - J403	VS1 - 0978 - 002		1	CONNECTOR, 2P, MALE コネクタ (オス)	
J501	PCB			NOISE FILTER ノイズ フィルタ	
	WS3 - 5175 - 000		1	CONNECTOR, 2P, FEMALE コネクタ (メス)	
	WS3 - 5174 - 000		2	SOCKET CONTACT, 16-20AWG ソケット コンタクト	
J601	PCB			SIDE BLANK サイド ブランク	
	VS1 - 5824 - 002		1	CONNECTOR, 2P, MALE コネクタ (オス)	
	WS3 - 5358 - 000		2	SOCKET CONTACT, 22-26AWG ソケット コンタクト	
J602	PCB			SIDE BLANK サイド ブランク	
	VS1 - 5824 - 002		1	CONNECTOR, 2P, MALE コネクタ (オス)	
	WS3 - 5358 - 000		2	SOCKET CONTACT, 22-26AWG ソケット コンタクト	
J751	PCB			SENSOR BOARD センサ ボード	
	VS1 - 0842 - 005		1	CONNECTOR, 5P, FEMALE コネクタ (メス)	
J801	PCB			BLANK EXPOSURE LAMP ブランク露光	
	VS1 - 0842 - 002		1	CONNECTOR, 2P, FEMALE コネクタ (メス)	
J851	PCB			PGP BOARD PGP ボード	115V ONLY
	VS1 - 0861 - 006		1	CONNECTOR, 6P, MALE コネクタ (オス)	115V ONLY
J901	NPN			MAIN MOTOR メイン モータ	M1
	VS1 - 0842 - 006		1	CONNECTOR, 6P, FEMALE コネクタ (メス)	
J951	PCB			TONER SENSING トナー残量検知	
	VS1 - 5824 - 002		1	CONNECTOR, 2P, MALE コネクタ (オス)	
	WS3 - 5358 - 000		2	SOCKET CONTACT, 22-26AWG ソケット コンタクト	
J954	PCB			TONER SENSING トナー残量検知	
	VS1 - 0842 - 003		1	CONNECTOR, 3P, FEMALE コネクタ (メス)	

COPYRIGHT © 1995 CANON INC.

D NUMERICAL INDEX
部品索引表

PART NUMBER	FIGURE & KEY NO.
FA4-1159-000	340 - 1
FA5-2864-020	290 - 1
	355 - 1
FA9-3063-000	530 - 28A
FA9-3065-000	400 - 1
FA9-3102-000	160 - 1
FA9-3205-000	102 - 1
FB1-0715-000	400 - 22A
FB1-7267-000	102 - 2
FB1-7270-000	102 - 3
FB1-7275-000	102 - 4
FB1-7283-000	100 - 1
FB1-7295-000	100 - 34A
FB1-7403-000	100 - 2
FB1-7425-000	530 - 1
FB1-7427-000	530 - 2
FB1-7431-000	530 - 3
FB1-8581-000	340 - 2
FB1-8870-000	160 - 2
FB1-9766-000	100 - 3
FB2-2559-000	300 - 1
FB2-4603-000	101 - 1
FB2-4604-030	101 - 2
FB2-4605-000	101 - 3
FB2-4606-000	100 - 4
FB2-4607-000	100 - 5
FB2-4610-000	101 - 4
FB2-4611-000	101 - 5
FB2-4612-000	101 - 6
FB2-4613-000	101 - 7
FB2-4614-000	101 - 8
FB2-4616-000	220 - 1
	401 - 1
FB2-4622-020	101 - 9
FB2-4626-000	101 - 10
FB2-4627-000	101 - 49A
FB2-4628-000	101 - 49B
FB2-4629-000	101 - 11
FB2-4650-000	400 - 2
FB2-4651-000	400 - 3
FB2-4652-000	400 - 4
FB2-4653-000	400 - 5
FB2-4654-000	400 - 6
FB2-4655-000	400 - 7
FB2-4656-030	400 - 8
FB2-4657-030	400 - 9
FB2-4658-020	400 - 10
FB2-4659-020	400 - 11
FB2-4660-000	400 - 12
FB2-4662-020	400 - 13
FB2-4663-020	400 - 14
FB2-4664-000	400 - 15
FB2-4665-000	400 - 16
FB2-4666-000	400 - 17
FB2-4667-020	400 - 18
FB2-4669-000	400 - 19
	401 - 2
FB2-4675-020	401 - 3
FB2-4676-000	401 - 4
FB2-4677-020	401 - 5
FB2-4678-020	401 - 6
FB2-4694-020	402 - 1
FB2-4695-020	402 - 2
FB2-4696-020	402 - 3
FB2-4701-000	220 - 2
FB2-4702-000	220 - 3
FB2-4703-000	220 - 4
FB2-4704-000	220 - 5
FB2-4705-000	220 - 6
FB2-4734-000	101 - 12
FB2-4736-000	101 - 13
FB2-4780-000	102 - 5
FB2-4785-000	100 - 6
FB2-4790-000	100 - 36A
FB2-4791-000	101 - 14
FB2-4792-000	101 - 15
FB2-4840-000	101 - 16
FB2-4861-000	530 - 4
FB2-4862-000	530 - 5
FB2-4863-000	300 - 2
FB2-4864-000	300 - 3
FB2-4866-000	101 - 17
FB2-4868-000	101 - 18
FB2-4869-000	101 - 19
FB2-4870-000	101 - 20

PART NUMBER	FIGURE & KEY NO.
FB2-4871-000	101 - 21
FB2-4872-000	101 - 22
FB2-4873-000	101 - 23
FB2-4875-000	101 - 24
FB2-4877-000	101 - 25
FB2-4882-000	100 - 7
FB2-4900-000	915 - 1
FB2-4901-000	915 - 2
FB2-4918-000	230 - 1
FB2-4927-000	230 - 2
FB2-4928-000	102 - 6
FB2-4929-000	102 - 7
FB2-4930-000	102 - 8
	102 - 9
FB2-4932-020	102 - 10
FB2-4933-000	102 - 11
FB2-4935-000	102 - 12
FB2-4939-000	530 - 6
FB2-4940-000	101 - 26
FB2-5014-000	810 - 1
FB2-5015-000	810 - 2
FB2-5016-000	810 - 3
FB2-5019-020	810 - 4
FB2-5020-000	810 - 5
FB2-5021-000	810 - 6
FB2-5022-000	810 - 7
FB2-5029-020	102 - 13
FB2-5030-000	102 - 14
FB2-5031-000	102 - 15
FB2-5032-000	102 - 16
FB2-5033-000	102 - 17
FB2-5034-000	102 - 18
FB2-5036-000	101 - 27
FB2-5040-000	102 - 19
FB2-5041-000	102 - 20
FB2-5042-000	102 - 21
FB2-5051-000	240 - 1
FB2-5052-000	240 - 2
FB2-5055-000	100 - 8
FB2-5057-000	101 - 28
FB2-5058-000	101 - 50A
FB2-5060-000	102 - 22
FB2-5153-000	530 - 28B
FB2-5156-000	530 - 7
FB2-5159-000	530 - 8
FB2-5161-030	102 - 23
FB2-5162-000	102 - 24
FB2-5163-000	102 - 25
FB2-5164-000	102 - 26
FB2-5169-000	530 - 9
FB2-5175-000	100 - 9
FB2-5177-000	100 - 10
FB2-5182-000	102 - 27
FB2-5183-000	102 - 28
FB2-5191-000	102 - 71A
FB2-5192-000	102 - 29
FB2-5197-000	250 - 1
FB2-5198-000	250 - 2
FB2-5199-000	250 - 3
FB2-5206-000	100 - 11
FB2-5207-000	100 - 12
FB2-5208-000	100 - 13
FB2-5210-000	100 - 14
FB2-5211-000	100 - 15
FB2-5212-000	100 - 16
FB2-5213-000	100 - 17
FB2-5214-000	100 - 18
FB2-5215-000	100 - 19
FB2-5216-000	100 - 20
FB2-5217-000	100 - 21
FB2-5221-000	102 - 30
FB2-5222-020	102 - 31
FB2-5223-000	102 - 32
FB2-5224-000	102 - 33
FB2-5302-000	102 - 34
FB2-5303-000	102 - 35
FB2-5304-000	102 - 36
FB2-5305-000	102 - 37
FB2-5309-000	102 - 38
FB2-5310-000	102 - 39
FB2-5311-000	102 - 40
FB2-5380-020	102 - 41
FB2-5381-000	102 - 42
FB2-5382-000	102 - 43
FB2-5383-020	102 - 44

PART NUMBER	FIGURE & KEY NO.
FB2-5385-000	102 - 45
FB2-5387-000	340 - 3
FB2-5388-000	102 - 46
FB2-5392-000	102 - 47
FB2-5402-000	300 - 4
FB2-5403-020	300 - 5
FB2-5404-000	300 - 6
FB2-5405-000	300 - 7
FB2-5406-020	300 - 8
FB2-5407-000	300 - 9
FB2-5408-000	300 - 10
FB2-5409-000	300 - 12
FB2-5410-000	300 - 11
FB2-5411-000	300 - 12
FB2-5412-000	300 - 13
FB2-5413-000	300 - 14
FB2-5414-000	300 - 15
FB2-5415-000	300 - 16
FB2-5420-000	300 - 17
FB2-5422-000	102 - 64A
FB2-5423-000	160 - 3
FB2-5424-000	160 - 4
FB2-5425-000	100 - 22
FB2-5426-000	100 - 23
FB2-5428-000	100 - 24
FB2-5432-000	300 - 18
FB2-5500-000	100 - 25
FB2-5501-020	101 - 29
FB2-5502-000	100 - 26
FB2-5507-000	100 - 36B
FB2-6043-000	300 - 19
FB2-6044-000	300 - 20
FB3-0570-000	101 - 30
FB3-0576-000	910 - 1
FB3-0577-000	910 - 2
FB3-0578-000	910 - 3
FB3-0579-000	910 - 4
FB3-0580-000	910 - 5
FB3-0581-000	230 - 3
FB3-0582-000	530 - 10
FB3-0583-000	230 - 4
FB3-0587-000	101 - 51A
FB3-0588-000	101 - 51B
FB3-0623-000	101 - 31
FB3-0625-000	101 - 52A
FB3-0626-000	101 - 32
FB3-0627-000	101 - 33
FB3-0629-000	230 - 5
FB3-0630-000	101 - 34
FB3-0632-000	101 - 35
FB3-0633-000	101 - 36
FB3-0639-000	101 - 37
FB3-0646-000	100 - 35A
FB3-0647-000	530 - 11
FB3-0648-000	530 - 12
FB3-0650-000	130 - 1
FB3-0651-000	130 - 1
FB3-0655-000	130 - 1
FB3-0656-000	130 - 1
FB3-0660-000	130 - 2
FB3-0661-000	130 - 3
FB3-0662-000	130 - 4
FB3-0663-000	130 - 5
FB3-0664-000	130 - 6
FB3-0665-000	130 - 7
FB3-0666-000	130 - 8
FB3-0667-000	130 - 9
FB3-0669-000	100 - 27
FB3-0670-000	101 - 38
FB3-0671-000	101 - 39
FB3-0672-000	930 - 1
FB3-0673-000	530 - 13
FB3-0674-000	530 - 14
FB3-0676-000	530 - 15
FB3-0677-000	530 - 16
FB3-0686-000	640 - 1
FB3-0687-000	640 - 2
FB3-0688-000	640 - 3
FB3-0691-000	640 - 4
FB3-0693-000	640 - 5
FB3-0694-000	640 - 6
FB3-0695-000	640 - 7
FB3-0696-000	640 - 8
FB3-0697-000	640 - 9
FB3-0698-000	640 - 10

COPYRIGHT © 1995 CANON INC.
CANON NP6012/6012F/6212 REV. 1-1 NOV. 1996 PRINTED IN JAPAN (IMPRIME AU JAPON)

D NUMERICAL INDEX
部品索引表

PART NUMBER	FIGURE & KEY NO.
FB3-0700-000	640 - 11
FB3-0701-000	640 - 12
FB3-0710-000	640 - 26A
FB3-0711-000	640 - 13
FB3-0712-000	640 - 25A
FB3-0713-000	640 - 14
FB3-0714-000	640 - 15
FB3-0715-000	640 - 16
FB3-0716-000	640 - 17
FB3-0718-000	640 - 18
FB3-0719-000	640 - 25B
FB3-0720-000	640 - 26B
FB3-0721-000	640 - 19
FB3-0722-000	640 - 20
FB3-0724-000	640 - 21
FB3-0725-000	640 - 25C
FB3-0726-000	640 - 22
FB3-0727-000	640 - 25D
FB3-0728-000	640 - 25E
FB3-0730-000	640 - 23
FB3-0732-000	102 - 48
FB3-0736-000	101 - 40
FB3-0738-000	100 - 28
	101 - 41
FB3-0743-000	102 - 49
FB3-0744-000	102 - 50
FB3-0745-000	102 - 51
FB3-0748-000	102 - 52
FB3-0765-000	530 - 17
FB3-0766-000	530 - 18
FB3-0767-000	530 - 19
FB3-0768-000	530 - 20
FB3-0770-000	450 - 1
FB3-0774-000	450 - 2
FB3-0775-000	450 - 3
FB3-0776-000	450 - 4
FB3-0782-000	450 - 5
FB3-0785-000	450 - 6
FB3-0788-000	640 - 24
FB3-0790-000	450 - 7
FB3-0791-000	450 - 8
FB3-0805-000	450 - 9
FB3-0806-000	450 - 10
FB3-0807-000	450 - 11
FB3-0809-000	100 - 29
FB3-0810-000	910 - 6
FB3-0811-000	450 - 12
FB3-0813-000	100 - 30
FB3-0815-000	450 - 13
FB3-0816-000	230 - 6
FB3-0817-000	100 - 37A
FB3-0820-000	101 - 2
FB3-0821-000	101 - 42
FB3-0824-000	100 - 31
FB3-0826-000	102 - 53
FB3-0827-000	100 - 33
FB3-0829-000	161 - 1
FB3-0831-000	102 - 54
FB3-0832-000	102 - 55
FB3-0833-000	102 - 9
FB3-0835-000	161 - 42A
FB3-0837-000	102 - 48
FB3-0839-000	100 - 6
FB3-0840-000	102 - 56
FB3-0841-000	102 - 57
FB3-0842-000	102 - 58
FB3-0844-000	102 - 59
FB3-0845-000	102 - 60
FB3-0847-000	100 - 30
FB3-0850-000	100 - 32
FB3-0851-000	100 - 33
FB3-0860-000	400 - 23A
FB3-3311-000	161 - 2
FB3-3312-000	161 - 3
FB3-3314-000	161 - 4
FB3-3315-000	161 - 5
FB3-3316-000	161 - 6
FB3-3318-000	161 - 39A
FB3-3319-000	161 - 39B
FB3-3320-000	161 - 39C
FB3-3321-000	161 - 7
FB3-3322-000	161 - 8
FB3-3323-000	161 - 9
FB3-3324-000	161 - 10
FB3-3325-000	161 - 11

PART NUMBER	FIGURE & KEY NO.
FB3-3326-000	161 - 12
FB3-3328-000	161 - 13
FB3-3329-000	161 - 38A
FB3-3330-000	161 - 14
FB3-3332-000	161 - 15
FB3-3334-000	161 - 16
FB3-3335-000	161 - 17
FB3-3336-000	161 - 18
FB3-3337-000	161 - 19
FB3-3338-000	161 - 20
FB3-3340-000	161 - 40A
FB3-3342-000	161 - 21
FB3-3343-000	161 - 22
FB3-3344-000	161 - 23
FB3-3345-000	161 - 24
FB3-3346-000	161 - 25
FB3-3347-000	161 - 26
FB3-3348-000	161 - 27
FB3-3349-000	161 - 41A
FB3-3350-000	161 - 41B
FB3-3351-000	161 - 41C
FB3-3355-000	161 - 28
FB3-3356-000	161 - 29
FB3-3357-000	161 - 30
FB3-3358-000	161 - 31
FB3-3360-000	161 - 32
FB3-3361-000	161 - 33
FB3-3364-000	161 - 34
FB3-3365-000	161 - 35
FB3-3371-000	290 - 2
FB3-3373-000	290 - 3
FB3-3374-000	290 - 4
FB3-3375-000	290 - 11A
FB3-3377-000	290 - 5
FB3-3378-000	290 - 6
FB3-3379-000	355 - 2
FB3-3381-000	355 - 11A
FB3-3382-000	355 - 3
FB3-3383-000	355 - 4
FB3-3385-000	355 - 5
FB3-3386-000	355 - 6
FB3-3387-000	355 - 7
FB3-3388-000	355 - 8
FB3-3389-000	355 - 9
FB3-3391-000	162 - 1
FB3-3392-000	162 - 5A
	162 - 7A
FB3-3395-000	162 - 2
FB3-3396-000	162 - 3
FB3-3397-000	162 - 4
FB3-3400-000	290 - 7
FB3-3401-000	161 - 36
FB3-3402-000	161 - 37
FF2-9724-000	230 - 7
FF2-9725-000	230 - 8
FF2-9726-000	230 - 9
FF2-9727-000	230 - 10
FF2-9729-000	400 - 20
FF2-9730-000	101 - 43
FF2-9731-000	450 - 14
FF2-9732-000	101 - 44
FF2-9733-000	810 - 8
FF2-9760-000	101 - 45
FF2-9762-000	530 - 21
FF2-9763-000	530 - 22
FF2-9764-000	530 - 23
FF2-9765-000	530 - 24
FF2-9766-000	530 - 25
FF2-9769-000	940 - 1
FF2-9770-000	940 - 2
FF2-9775-000	910 - J205
FF2-9779-000	530 - 26
	810 - 9
FF2-9789-000	102 - 61
FF2-9799-000	101 - 46
FF2-9800-000	102 - 62
FF3-0416-000	910 - Q501
FF3-0471-000	450 - 15
FF3-0473-000	450 - 16
FF3-0475-000	910 - J214
FF3-0476-000	910 - 7
FF3-0477-000	910 - J952
FF3-0479-000	102 - 72A
FF3-0480-000	400 - 21
FF3-1069-000	935 - Q 2

PART NUMBER	FIGURE & KEY NO.
FF3-1070-000	290 - 8
FF3-1071-000	355 - 10
FF3-1089-000	910 - BP102
FF3-1090-000	910 - BP101
FF3-1215-000	102 - 63
FF5-1673-000	530 - 27
FF5-2858-000	102 - 64
FF5-2859-000	101 - 47
FF5-2867-020	101 - 48
FF5-2868-000	220 - 7
FF5-2870-000	530 - 28
FF5-2871-000	530 - 29
FF5-2873-030	102 - 65
FF5-2874-000	250 - 4
FF5-2875-000	100 - 34
FF5-2886-000	230 - 11
FF5-2887-000	230 - 12
FF5-2888-000	230 - 13
FF5-2889-000	400 - 22
FF5-2890-000	101 - 49
FF5-2899-000	401 - 7
FF5-2900-000	401 - 8
FF5-2901-000	402 - 4
FF5-2902-000	402 - 5
FF5-2903-000	300 - 21
FF5-2904-000	300 - 22
FF5-2905-020	402 - 6
FF5-3713-000	530 - 30
FF5-3714-000	102 - 66
FF5-3716-000	101 - 50
FF5-3889-000	101 - 51
FF5-3890-000	100 - 35
FF5-3891-000	100 - 35
FF5-3892-000	100 - 35
FF5-3901-000	450 - 17
FF5-3902-000	450 - 18
FF5-3903-000	100 - 36
FF5-3905-000	100 - 37
FF5-3907-000	640 - 25
FF5-3908-000	640 - 26
FF5-3910-000	640 - 27
FF5-3912-000	101 - 52
FF5-3920-000	100 - 36
FF5-3922-000	102 - 70
FF5-3923-000	102 - 69
FF5-3924-000	400 - 23
FF5-3927-000	102 - 67
FF5-3928-020	102 - 68
FF5-4674-000	161 - 38
FF5-4675-000	161 - 39
FF5-4677-000	161 - 40
FF5-4678-000	162 - 5
FF5-4679-000	161 - 41
FF5-4680-000	290 - 9
FF5-4681-000	290 - 10
FF5-4682-000	290 - 11
FF5-4683-000	162 - 6
FF5-4684-000	162 - 7
FF5-4685-000	355 - 11
FF5-4686-000	355 - 12
FF9-1499-000	102 - 69
FF9-1500-000	102 - 70
FF9-1505-000	102 - 71
FF9-1514-000	100 - 31
FG2-7466-000	935 -
FG2-7467-000	161 - 42
FG2-7468-000	290 - 12
FG2-7469-000	161 - 43
FG2-7470-000	161 - 44
FG2-7471-000	161 - 45
FG5-3465-020	220 -
FG5-3492-050	810 -
FG5-3493-050	810 -
FG5-3501-000	240 -
FG5-3511-000	250 -
FG5-3516-000	811 -
FG5-3531-000	340 -
FG5-3532-000	160 -
FG5-3541-000	970 -
FG5-3543-000	940 -
FG5-3544-000	940 -
FG5-3550-000	101 - 53
FG5-5450-000	130 -
FG5-5452-000	130 -
FG5-5465-000	640 -

COPYRIGHT © 1995 CANON INC.
CANON NP6012/6012F/6212 REV. 1-1 NOV. 1996 PRINTED IN JAPAN (IMPRIME AU JAPON)

D NUMERICAL INDEX
部品索引表

PART NUMBER	FIGURE & KEY NO.
FA4-1159-000	340 - 1
FA5-2864-020	290 - 1
	355 - 1
FA9-3063-000	530 - 28A
FA9-3065-000	400 - 1
FA9-3102-000	160 - 1
FA9-3205-000	102 - 1
FB1-0715-000	400 - 22A
FB1-7267-000	102 - 2
FB1-7270-000	102 - 3
FB1-7275-000	102 - 4
FB1-7283-000	100 - 1
FB1-7295-000	100 - 34A
FB1-7403-000	100 - 2
FB1-7425-000	530 - 1
FB1-7427-000	530 - 2
FB1-7431-000	530 - 3
FB1-8581-000	340 - 2
FB1-8870-000	160 - 2
FB1-9097-000	811 - 1
FB1-9766-000	100 - 3
FB2-2559-000	300 - 1
FB2-4603-000	101 - 1
FB2-4604-000	101 - 2
FB2-4605-000	101 - 3
FB2-4606-000	100 - 4
FB2-4607-000	100 - 5
FB2-4610-000	101 - 4
FB2-4611-000	101 - 5
FB2-4612-000	101 - 6
FB2-4613-000	101 - 7
FB2-4614-000	101 - 8
FB2-4616-000	220 - 1
	401 - 1
FB2-4622-000	101 - 9
FB2-4626-000	101 - 10
FB2-4627-000	101 - 47A
FB2-4628-000	101 - 47B
FB2-4629-000	101 - 11
FB2-4650-000	400 - 2
FB2-4651-000	400 - 3
FB2-4652-000	400 - 4
FB2-4653-000	400 - 5
FB2-4654-000	400 - 6
FB2-4655-000	400 - 7
FB2-4656-000	400 - 8
FB2-4657-000	400 - 9
FB2-4658-000	400 - 10
FB2-4659-000	400 - 11
FB2-4660-000	400 - 12
FB2-4662-000	400 - 13
FB2-4663-000	400 - 14
FB2-4664-000	400 - 15
FB2-4665-000	400 - 16
FB2-4666-000	400 - 17
FB2-4667-000	400 - 18
FB2-4669-000	400 - 19
	401 - 2
FB2-4675-000	401 - 3
FB2-4676-000	401 - 4
FB2-4677-000	401 - 5
FB2-4678-000	401 - 6
FB2-4694-000	402 - 1
FB2-4695-000	402 - 2
FB2-4696-020	402 - 3
FB2-4701-000	220 - 2
FB2-4702-000	220 - 3
FB2-4703-000	220 - 4
FB2-4704-000	220 - 5
FB2-4705-000	220 - 6
FB2-4734-000	101 - 12
FB2-4736-000	101 - 13
FB2-4780-000	102 - 5
FB2-4785-000	100 - 6
FB2-4790-000	100 - 36A
FB2-4791-000	100 - 7
FB2-4840-000	101 - 14
FB2-4861-000	530 - 4
FB2-4862-000	530 - 5
FB2-4863-000	300 - 2
FB2-4864-000	300 - 3
FB2-4866-000	101 - 15
FB2-4868-000	101 - 16
FB2-4869-000	101 - 17
FB2-4870-000	101 - 18

PART NUMBER	FIGURE & KEY NO.
FB2-4871-000	101 - 19
FB2-4872-000	101 - 20
FB2-4873-000	101 - 21
FB2-4875-000	101 - 22
FB2-4877-000	101 - 23
FB2-4882-000	100 - 8
FB2-4900-000	915 - 1
FB2-4901-000	915 - 2
FB2-4918-000	230 - 1
FB2-4927-000	230 - 2
FB2-4928-000	102 - 6
FB2-4929-000	102 - 7
FB2-4930-000	102 - 8
	102 - 9
FB2-4932-020	102 - 10
FB2-4933-000	102 - 11
FB2-4935-000	102 - 12
FB2-4939-000	530 - 6
FB2-4940-000	101 - 24
FB2-5014-000	810 - 1
FB2-5015-000	810 - 2
FB2-5016-000	810 - 3
FB2-5019-020	810 - 4
FB2-5020-000	810 - 5
FB2-5021-000	810 - 6
FB2-5022-000	810 - 7
FB2-5029-020	102 - 13
FB2-5030-000	102 - 14
FB2-5031-000	102 - 15
FB2-5032-000	102 - 16
FB2-5033-000	102 - 17
FB2-5034-000	102 - 18
FB2-5036-000	101 - 25
FB2-5040-000	102 - 19
FB2-5041-000	102 - 20
FB2-5042-000	102 - 21
FB2-5051-000	240 - 1
FB2-5052-000	240 - 2
FB2-5055-000	100 - 9
FB2-5057-000	101 - 26
FB2-5058-000	101 - 48A
FB2-5060-000	102 - 22
FB2-5153-000	530 - 28B
FB2-5156-000	530 - 7
FB2-5159-000	530 - 8
FB2-5161-030	102 - 23
FB2-5162-000	102 - 24
FB2-5163-000	102 - 25
FB2-5164-000	102 - 26
FB2-5169-000	530 - 9
FB2-5175-000	100 - 10
FB2-5177-000	100 - 11
FB2-5182-000	102 - 27
FB2-5183-000	102 - 28
FB2-5191-000	102 - 70A
FB2-5192-000	102 - 29
FB2-5197-000	250 - 1
FB2-5198-000	250 - 2
FB2-5199-000	250 - 3
FB2-5206-000	100 - 12
FB2-5207-000	100 - 13
FB2-5208-000	100 - 14
FB2-5210-000	100 - 15
FB2-5211-000	100 - 16
FB2-5212-000	100 - 17
FB2-5213-000	100 - 18
FB2-5214-000	100 - 19
FB2-5215-000	100 - 20
FB2-5216-000	100 - 21
FB2-5217-000	100 - 22
FB2-5221-000	102 - 30
FB2-5222-020	102 - 31
FB2-5223-000	102 - 32
FB2-5224-000	102 - 33
FB2-5302-000	102 - 34
FB2-5303-000	102 - 35
FB2-5304-000	102 - 36
FB2-5305-000	102 - 37
FB2-5309-000	102 - 38
FB2-5310-000	102 - 39
FB2-5311-000	102 - 40
FB2-5380-020	102 - 41
FB2-5381-000	102 - 42
FB2-5382-000	102 - 43
FB2-5383-020	102 - 44

PART NUMBER	FIGURE & KEY NO.
FB2-5385-000	102 - 45
FB2-5387-000	340 - 3
FB2-5388-000	102 - 46
FB2-5402-000	300 - 4
FB2-5403-020	300 - 5
FB2-5404-000	300 - 6
FB2-5405-000	300 - 7
FB2-5406-020	300 - 8
FB2-5407-000	300 - 9
FB2-5408-000	300 - 10
FB2-5410-000	300 - 11
FB2-5411-000	300 - 12
FB2-5412-000	300 - 13
FB2-5413-000	300 - 14
FB2-5414-000	300 - 15
FB2-5415-000	300 - 16
FB2-5420-000	300 - 17
FB2-5422-000	102 - 63A
FB2-5423-000	160 - 3
FB2-5424-000	160 - 4
FB2-5425-000	100 - 23
FB2-5426-000	100 - 24
FB2-5428-000	100 - 25
FB2-5432-000	300 - 18
FB2-5500-000	100 - 26
FB2-5501-020	101 - 27
FB2-5502-000	100 - 27
FB2-5507-000	100 - 36B
FB2-5508-000	811 - 2
FB2-6043-000	300 - 19
FB2-6044-000	300 - 20
FB3-0570-000	101 - 28
FB3-0576-000	910 - 1
FB3-0577-000	910 - 2
FB3-0578-000	910 - 3
FB3-0579-000	910 - 4
FB3-0580-000	910 - 5
FB3-0581-000	230 - 3
FB3-0582-000	530 - 10
FB3-0583-000	230 - 4
FB3-0587-000	101 - 49A
FB3-0588-000	101 - 49B
FB3-0623-000	101 - 29
FB3-0625-000	101 - 50A
FB3-0626-000	101 - 30
FB3-0627-000	101 - 31
FB3-0629-000	230 - 5
FB3-0630-000	101 - 32
FB3-0632-000	101 - 33
FB3-0633-000	101 - 34
FB3-0639-000	101 - 35
FB3-0646-000	100 - 35A
FB3-0647-000	530 - 11
FB3-0648-000	530 - 12
FB3-0650-000	130 - 1
FB3-0651-000	130 - 1
FB3-0655-000	130 - 1
FB3-0656-000	130 - 1
FB3-0660-000	130 - 2
FB3-0661-000	130 - 3
FB3-0662-000	130 - 4
FB3-0663-000	130 - 5
FB3-0664-000	130 - 6
FB3-0665-000	130 - 7
FB3-0666-000	130 - 8
FB3-0667-000	130 - 9
FB3-0669-000	100 - 28
FB3-0670-000	101 - 36
FB3-0671-000	101 - 37
FB3-0672-000	930 - 1
FB3-0673-000	530 - 13
FB3-0674-000	530 - 14
FB3-0676-000	530 - 15
FB3-0677-000	530 - 16
FB3-0686-000	640 - 1
FB3-0687-000	640 - 2
FB3-0688-000	640 - 3
FB3-0691-000	640 - 4
FB3-0693-000	640 - 5
FB3-0694-000	640 - 6
FB3-0695-000	640 - 7
FB3-0696-000	640 - 8
FB3-0697-000	640 - 9
FB3-0698-000	640 - 10
FB3-0700-000	640 - 11

COPYRIGHT © 1995 CANON INC
CANON NP6012/6012F/6212 REV.1 OCT. 1995 PRINTED IN JAPAN [IMPRIME AU JAPON]

D NUMERICAL INDEX
部品索引表

PART NUMBER	FIGURE & KEY NO.
FB3-0701-000	640 - 12
FB3-0710-000	640 - 26A
FB3-0711-000	640 - 13
FB3-0712-000	640 - 25A
FB3-0713-000	640 - 14
FB3-0714-000	640 - 15
FB3-0715-000	640 - 16
FB3-0716-000	640 - 17
FB3-0718-000	640 - 18
FB3-0719-000	640 - 25B
FB3-0720-000	640 - 26B
FB3-0721-000	640 - 19
FB3-0722-000	640 - 20
FB3-0724-000	640 - 21
FB3-0725-000	640 - 25C
FB3-0726-000	640 - 22
FB3-0727-000	640 - 25D
FB3-0728-000	640 - 25E
FB3-0730-000	640 - 23
FB3-0732-000	102 - 47
FB3-0736-000	101 - 38
FB3-0738-000	100 - 29
	101 - 39
FB3-0743-000	102 - 48
FB3-0744-000	102 - 49
FB3-0745-000	102 - 50
FB3-0748-000	102 - 51
FB3-0765-000	530 - 17
FB3-0766-000	530 - 18
FB3-0767-000	530 - 19
FB3-0768-000	530 - 20
FB3-0770-000	450 - 1
FB3-0774-000	450 - 2
FB3-0775-000	450 - 3
FB3-0776-000	450 - 4
FB3-0782-000	450 - 5
FB3-0785-000	450 - 6
FB3-0788-000	640 - 24
FB3-0790-000	450 - 7
FB3-0791-000	450 - 8
FB3-0805-000	450 - 9
FB3-0806-000	450 - 10
FB3-0807-000	450 - 11
FB3-0809-000	100 - 30
FB3-0810-000	910 - 6
FB3-0811-000	450 - 12
FB3-0813-000	100 - 31
FB3-0815-000	450 - 13
FB3-0816-000	230 - 6
FB3-0817-000	100 - 37A
FB3-0820-000	101 - 2
FB3-0821-000	101 - 40
FB3-0826-000	102 - 52
FB3-0827-000	100 - 33
FB3-0829-000	161 - 1
FB3-0831-000	102 - 53
FB3-0832-000	102 - 54
FB3-0833-000	102 - 9
FB3-0835-000	161 - 42A
FB3-0837-000	102 - 47
FB3-0839-000	100 - 6
FB3-0840-000	102 - 55
FB3-0841-000	102 - 56
FB3-0842-000	102 - 57
FB3-0844-000	102 - 58
FB3-0845-000	102 - 59
FB3-0847-000	100 - 31
FB3-0850-000	100 - 32
FB3-0851-000	100 - 33
FB3-0860-000	400 - 23A
FB3-3311-000	161 - 2
FB3-3312-000	161 - 3
FB3-3314-000	161 - 4
FB3-3315-000	161 - 5
FB3-3316-000	161 - 6
FB3-3318-000	161 - 39A
FB3-3319-000	161 - 39B
FB3-3320-000	161 - 39C
FB3-3321-000	161 - 7
FB3-3322-000	161 - 8
FB3-3323-000	161 - 9
FB3-3324-000	161 - 10
FB3-3325-000	161 - 11
FB3-3326-000	161 - 12
FB3-3328-000	161 - 13
FB3-3329-000	161 - 38A
FB3-3330-000	161 - 14
FB3-3332-000	161 - 15
FB3-3334-000	161 - 16
FB3-3335-000	161 - 17
FB3-3336-000	161 - 18
FB3-3337-000	161 - 19
FB3-3338-000	161 - 20
FB3-3340-000	161 - 40A
FB3-3342-000	161 - 21
FB3-3343-000	161 - 22
FB3-3344-000	161 - 23
FB3-3345-000	161 - 24
FB3-3346-000	161 - 25
FB3-3347-000	161 - 26
FB3-3348-000	161 - 27
FB3-3349-000	161 - 41A
FB3-3350-000	161 - 41B
FB3-3351-000	161 - 41C
FB3-3355-000	161 - 28
FB3-3356-000	161 - 29
FB3-3357-000	161 - 30
FB3-3358-000	161 - 31
FB3-3360-000	161 - 32
FB3-3361-000	161 - 33
FB3-3364-000	161 - 34
FB3-3365-000	161 - 35
FB3-3371-000	290 - 2
FB3-3373-000	290 - 3
FB3-3374-000	290 - 4
FB3-3375-000	290 - 11A
FB3-3377-000	290 - 5
FB3-3378-000	290 - 6
FB3-3379-000	355 - 2
FB3-3381-000	355 - 11A
FB3-3382-000	355 - 3
FB3-3383-000	355 - 4
FB3-3385-000	355 - 5
FB3-3386-000	355 - 6
FB3-3387-000	355 - 7
FB3-3388-000	355 - 8
FB3-3389-000	355 - 9
FB3-3391-000	162 - 1
FB3-3392-000	162 - 5A
	162 - 7A
FB3-3395-000	162 - 2
FB3-3396-000	162 - 3
FB3-3397-000	162 - 4
FB3-3400-000	290 - 7
FB3-3401-000	161 - 36
FB3-3402-000	161 - 37
FF2-9724-000	230 - 7
FF2-9725-000	230 - 8
FF2-9726-000	230 - 9
FF2-9727-000	230 - 10
FF2-9729-000	400 - 20
FF2-9730-000	101 - 41
FF2-9731-000	450 - 14
FF2-9732-000	101 - 42
FF2-9733-000	810 - 8
FF2-9760-000	101 - 43
FF2-9762-000	530 - 21
FF2-9763-000	530 - 22
FF2-9764-000	530 - 23
FF2-9765-000	530 - 24
FF2-9766-000	530 - 25
FF2-9769-000	940 - 1
FF2-9770-000	940 - 2
FF2-9775-000	910 - J205
FF2-9779-000	530 - 26
	810 - 9
FF2-9789-000	102 - 60
FF2-9799-000	101 - 44
FF2-9800-000	102 - 61
FF3-0416-000	910 - Q501
FF3-0471-000	450 - 15
FF3-0473-000	450 - 16
FF3-0475-000	910 - J214
FF3-0476-000	910 - 7
FF3-0477-000	910 - J952
FF3-0479-000	102 - 71A
FF3-0480-000	400 - 21
FF3-1069-000	935 - Q 2
FF3-1070-000	290 - 8
FF3-1071-000	355 - 10
FF3-1089-000	910 - BP102
FF3-1090-000	910 - BP101
FF3-1215-000	102 - 62
FF5-1673-000	530 - 27
FF5-2658-000	102 - 63
FF5-2659-000	101 - 45
FF5-2867-000	101 - 46
FF5-2868-000	220 - 7
FF5-2870-000	530 - 28
FF5-2871-000	530 - 29
FF5-2873-030	102 - 64
FF5-2874-000	250 - 4
FF5-2875-000	100 - 34
FF5-2886-000	230 - 11
FF5-2887-000	230 - 12
FF5-2888-000	230 - 13
FF5-2889-000	400 - 22
FF5-2890-000	101 - 47
FF5-2899-000	401 - 7
FF5-2900-000	401 - 8
FF5-2901-000	402 - 4
FF5-2902-000	402 - 5
FF5-2903-000	300 - 21
FF5-2904-000	300 - 22
FF5-2905-000	402 - 6
FF5-3713-000	530 - 30
FF5-3714-000	102 - 65
FF5-3716-000	101 - 48
FF5-3859-000	101 - 49
FF5-3890-000	100 - 35
FF5-3891-000	100 - 35
FF5-3892-000	100 - 35
FF5-3901-000	450 - 17
FF5-3902-000	450 - 18
FF5-3903-000	100 - 36
FF5-3905-000	100 - 37
FF5-3907-000	640 - 25
FF5-3908-000	640 - 26
FF5-3910-000	640 - 27
FF5-3912-000	101 - 50
FF5-3920-000	100 - 36
FF5-3922-000	102 - 69
FF5-3923-000	102 - 68
FF5-3924-000	400 - 23
FF5-3927-000	102 - 66
FF5-3928-020	102 - 67
FF5-4674-000	161 - 38
FF5-4675-000	161 - 39
FF5-4677-000	161 - 40
FF5-4678-000	162 - 5
FF5-4679-000	161 - 41
FF5-4680-000	290 - 9
FF5-4681-000	290 - 10
FF5-4682-000	290 - 11
FF5-4683-000	162 - 6
FF5-4684-000	162 - 7
FF5-4685-000	355 - 11
FF5-4686-000	355 - 12
FF9-1499-000	102 - 68
FF9-1500-000	102 - 69
FF9-1505-000	102 - 70
FF9-1514-000	100 - 38
FG2-7466-000	935 -
FG2-7467-000	161 - 42
FG2-7468-000	290 - 12
FG2-7469-000	161 - 43
FG2-7470-000	161 - 44
FG2-7471-000	161 - 45
FG5-3465-020	220 -
FG5-3492-050	810 -
FG5-3493-050	810 -
FG5-3501-000	240 -
FG5-3511-000	250 -
FG5-3516-000	811 -
FG5-3531-000	340 -
FG5-3532-000	160 -
FG5-3541-000	970 -
FG5-3543-000	940 -
FG5-3544-000	940 -
FG5-3550-000	101 - 51
FG5-5450-000	130 -
FG5-5452-000	130 -
FG5-5465-000	640 -
FG5-5466-000	640 - 28
FG5-5469-000	915 -

COPYRIGHT © 1995 CANON INC.
CANON NP6012/6012F/6212 REV.1 OCT. 1995 PRINTED IN JAPAN [IMPRIME AU JAPON]

D NUMERICAL INDEX
部品索引表

PART NUMBER	FIGURE & KEY NO.
FG5-5466-000	640 - 28
FG5-5469-000	915 -
FG5-5489-000	930 -
FG5-5490-000	930 -
FG5-5492-000	910 -
FG5-5493-000	910 -
FG5-5496-000	102 - 72
FG5-5497-000	915 -
FG5-5499-000	450 - 19
FG5-5505-000	930 -
FG5-5506-000	930 -
FG5-5507-000	930 -
FG5-5509-000	101 - 53
FG5-6411-000	290 -
FG5-6412-000	162 -
FG5-6413-000	355 -
FH2-5761-000	102 - 105
FH2-5795-000	B - J 8
	B - J 9
FH2-5796-000	B - J 8
	B - J 9
FH2-6231-000	915 - 3
	B - J111
	B - J301
FH3-0569-000	910 - T301
FH3-0660-000	910 - T302
FH3-0665-000	910 - T104
FH3-0666-000	910 - T104
FH3-0667-000	910 - T103
FH3-0668-000	910 - T201
FH3-0732-000	910 - T101
FH3-0733-000	910 - T101
FH3-0734-000	910 - T401
FH3-0735-000	910 - T402
FH3-0779-000	910 - T102
FH3-0780-000	910 - T102
FH3-7169-000	910 - L401
FH3-7170-000	910 - L101
FH3-7195-000	910 - L101
FH4-1242-000	930 - Q101
FH4-1251-000	930 - Q101
FH4-9163-000	910 - R322
FH4-9169-000	910 - R303
FH4-9186-000	910 - R328
FH6-1078-000	220 - 8
FH6-1209-000	230 - 14
FH6-1237-000	290 - 13
FH6-1238-000	290 - 14
FH6-3494-000	930 - X101
FH7-3272-000	400 - 24
FH7-3277-000	915 - LED315
FH7-4474-000	400 - 25
FH7-4475-000	400 - 25
FH7-5564-000	220 - 9
FH7-5627-000	102 - 73
FH7-5628-000	102 - 74
FH7-5645-000	530 - 31
FH7-6197-000	910 - RL101
FH7-6216-000	102 - 75
FH9-0367-000	910 - R313
	910 - R316
FH9-0483-000	930 - Q142
	930 - Q143
	930 - Q144
	930 - Q145
	930 - Q163
	930 - Q164
	930 - Q180
	930 - Q185
FH9-0484-000	940 - L501
FN1-4210-000	100 - 38
FN5-4018-000	400 - 26
FN5-4019-000	401 - 9
FN5-4020-000	402 - 7
FN5-4021-000	101 - 54
FN5-4072-000	100 - 38
FS1-1190-000	290 - 15
FS1-1205-000	355 - 13
FS1-1341-000	355 - 14
FS5-0883-000	102 - 76
FS5-0885-000	102 - 77
FS5-0887-000	102 - 78
FS5-0890-000	250 - 5
FS5-0900-000	250 - 6
FS5-0903-000	102 - 79
FS5-0904-000	300 - 23
FS5-0905-000	230 - 15
FS5-0906-000	230 - 16
FS5-0907-000	230 - 17
FS5-0908-000	230 - 18
FS5-0911-000	240 - 3
FS5-0912-000	240 - 4
FS5-0913-020	102 - 80
FS5-0914-000	810 - 10
FS5-0915-000	102 - 81
FS5-0917-000	220 - 10
FS5-0918-000	220 - 11
FS5-0919-000	220 - 12
FS5-1439-000	220 - 13
FS5-1440-000	102 - 82
FS5-1530-000	640 - 29
FS5-2032-000	400 - 27
FS5-2335-000	530 - 29A
FS5-2351-000	102 - 83
FS5-2650-000	300 - 24
FS5-2767-000	102 - 84
FS5-2769-000	100 - 39
FS5-2770-000	100 - 40
FS5-2771-000	102 - 85
FS5-2772-000	102 - 86
FS5-2773-000	102 - 87
FS5-2774-000	530 - 32
FS5-2776-000	100 - 41
FS5-2778-000	102 - 88
FS5-2779-000	102 - 89
FS5-2780-000	300 - 25
FS5-2781-020	300 - 26
FS5-2782-000	300 - 27
FS5-2784-000	530 - 33
FS5-2785-000	230 - 19
FS5-2786-000	240 - 5
FS5-2790-000	450 - 20
FS5-2794-000	810 - 11
FS5-2795-000	810 - 12
FS5-2796-000	810 - 13
FS5-2797-000	101 - 55
FS5-2798-000	102 - 90
FS5-2799-000	102 - 91
FS5-2800-000	102 - 92
FS5-2802-000	101 - 56
FS5-2803-020	101 - 57
FS5-2806-000	102 - 93
FS5-2810-000	300 - 28
FS5-2815-000	400 - 28
FS5-2821-000	220 - 14
FS5-3457-000	290 - 16
FS5-3458-000	161 - 46
FS5-3459-000	355 - 15
FS5-3460-000	355 - 16
FS5-6393-000	230 - 20
FS5-6394-000	640 - 30
FS5-6453-000	161 - 47
FS5-6454-000	161 - 48
FS5-6455-000	161 - 49
	355 - 17
FS6-0437-000	640 - 31
FS6-0439-000	640 - 32
FS6-0440-000	640 - 33
FS6-0442-000	640 - 34
FS6-0443-000	640 - 35
FS6-0445-000	640 - 36
FS6-0446-000	640 - 37
FS6-0613-000	290 - 17
FS6-0616-000	290 - 18
FS6-0617-000	290 - 19
FS6-0618-000	290 - 20
FS6-2229-000	450 - 21
FS6-2230-000	450 - 22
FS6-2231-000	450 - 23
FS6-2232-000	102 - 94
	102 - 95
FS6-2233-000	102 - 95
FS6-2234-000	102 - 93
FS6-2238-000	640 - 38
FS6-2239-000	102 - 96
FS6-2240-000	102 - 97
FS6-2241-000	102 - 98
FS6-2242-000	450 - 24
FS6-2243-000	530 - 34
FS6-2270-000	100 - 42
FS6-2369-000	161 - 50
FS6-2370-000	161 - 51
FS6-2371-000	161 - 52
FS6-2373-000	161 - 53
FS6-2374-000	355 - 18
FS6-2375-000	355 - 19
FS6-8194-000	161 - 54
FS6-8195-000	161 - 55
FS6-8196-000	162 - 6A
FS6-8197-000	162 - 8
FS6-8347-000	300 - 29
FS6-8401-000	300 - 30
RH2-5015-000	102 - 105
RH2-5276-000	102 - 105
RH6-3069-000	910 - R306
	910 - R413
	910 - R414
VC1-2061-336	910 - C120
VC1-2101-477	935 - C 1
VC1-2351-107	910 - C110
VC1-2351-477	935 - C 2
VC1-2501-475	935 - C 3
VC3-2501-103	910 - C109
	910 - C112
VC4-3503-101	910 - C205
	910 - C231
VC4-3503-102	910 - C124
	910 - C207
	910 - C228
	910 - C232
	930 - C145
	930 - C148
VC4-3503-332	910 - C208
VC5-2810-682	910 - C413
VC5-3340-106	970 - C401
VC5-3740-104	910 - C104
	910 - C105
	910 - C116
	910 - C122
	910 - C201
	910 - C203
	910 - C215
	910 - C220
	910 - C227
	910 - C501
VC5-6000-101	910 - C415
VC5-6110-222	910 - C119
VC5-6110-472	910 - C121
VC5-6110-821	910 - C119
	910 - C121
VC5-8660-270	910 - C964
VC5-8660-331	910 - C952
VC5-9610-105	935 - C 8
VC6-0160-222	910 - C313
VC6-0730-476	910 - C406
	910 - C419
	910 - C421
VC6-0950-476	910 - C106
VC6-1150-103	910 - C218
	910 - C233
VC6-2560-332	910 - C115
VC6-3000-104	930 - C111
	930 - C112
	930 - C114
	930 - C155
	930 - C182
	930 - C184
	930 - C185
	930 - C186
	930 - C206
	970 - C403
	970 - C404
	970 - C405
VC6-3000-473	970 - C406
VC6-3310-336	910 - C314
VC6-3760-335	910 - C117
VC6-3760-336	910 - C114
	910 - C118
VC6-3840-105	910 - C953
	910 - C963
VC6-3840-226	910 - C956
VC6-5910-476	930 - C187
VC7-0590-108	910 - C101
VC7-0590-477	910 - C102
VC7-1150-101	910 - C422

COPYRIGHT © 1995 CANON INC.

D NUMERICAL INDEX
部品索引表

PART NUMBER	FIGURE & KEY NO.
VC7-1150-101	910 - C425
VC7-1150-102	910 - C311
	910 - C312
	910 - C315
VC7-1150-222	910 - C302
VC7-1150-331	910 - C301
VC7-1160-150	910 - C320
VC7-1410-101	910 - C426
VC7-1410-102	910 - C420
VC7-1770-104	910 - C108
VC7-1770-224	940 - C502
VC7-1770-474	940 - C501
VC7-1960-105	910 - C210
VC7-2090-102	910 - C217
	910 - C219
VC7-2730-472	910 - C318
VC7-2900-100	910 - C951
VC7-3630-227	910 - C211
VC7-3960-337	910 - C202
	910 - C204
VC7-4260-476	930 - C142
VC7-4830-471	910 - C304
	910 - C305
VC7-5130-334	910 - C123
VC7-5130-684	910 - C308
VC7-5250-104	910 - C206
	910 - C209
	910 - C213
	910 - C216
	910 - C221
	910 - C223
	910 - C224
	910 - C225
	910 - C229
	910 - C230
	910 - C303
	910 - C309
	910 - C316
	910 - C319
	910 - C427
VC7-5290-473	910 - C107
	910 - C418
VC7-5400-103	910 - C416
VC7-5980-102	910 - C407
	910 - C424
VC7-5980-681	910 - C402
	910 - C403
	910 - C404
	910 - C405
	910 - C408
	910 - C409
	910 - C410
	910 - C411
	910 - C412
VC7-5990-560	910 - C401
VC7-8400-101	910 - C307
VC8-0650-687	910 - C113
VC8-0860-187	910 - C119
VC8-0780-107	930 - C149
	930 - C151
VC8-0790-107	930 - C146
	930 - C150
VC8-1520-108	910 - C222
VC8-2340-822	930 - C163
	930 - C164
	930 - C165
	930 - C166
VC8-2810-104	910 - C423
VC9-1595-000	940 - C503
	940 - C504
VC9-5047-000	910 - C414
	910 - C426
	910 - C955
	910 - C957
VC9-5344-000	970 - C402
VC9-5391-000	910 - C317
VD7-0215-001	910 - FU102
VD7-0461-202	940 - FU501
VD7-0642-501	910 - FU102
VD7-1506-301	940 - FU501
VL5-0390-086	910 - L103
	940 - L501
VL7-0310-473	910 - L202
VR1-1141-515	910 - R318
VR1-1141-820	915 - R301

PART NUMBER	FIGURE & KEY NO.
VR1-1141-820	915 - R302
	915 - R303
	915 - R304
	915 - R305
	915 - R306
	915 - R307
	915 - R308
VR5-0790-109	930 - R107
	930 - R108
	935 - R 14
	935 - R 15
VR5-0830-101	930 - R163
VR5-1010-104	910 - R314
	910 - R317
VR5-1010-471	910 - R130
VR5-1010-561	910 - R446
	910 - R450
VR5-2650-103	530 - 35
VR5-2650-105	940 - R501
VR5-3520-102	910 - VR101
	910 - VR401
VR5-3520-203	910 - VR953
VR5-3520-503	910 - VR951
	910 - VR952
VR5-3680-000	910 - R211
	910 - R236
VR5-3680-101	930 - R266
VR5-3680-102	930 - R265
VR5-3680-103	910 - R957
	910 - R959
	910 - R960
	910 - R961
	910 - R967
VR5-3680-104	910 - R969
VR5-3680-105	910 - R954
	910 - R955
	910 - R964
	910 - R965
VR5-3680-221	910 - R956
	910 - R966
VR5-3680-243	910 - R951
VR5-3680-273	910 - R962
	910 - R970
VR5-3680-683	910 - R952
VR5-6040-150	910 - R129
VR5-6040-220	910 - R129
VR5-6411-000	930 - R310
	970 - R409
VR5-6411-001	910 - R234
	930 - R125
	930 - R309
VR5-6411-002	910 - R224
	910 - R232
	910 - R416
	930 - R120
	930 - R263
VR5-6411-004	970 - R408
VR5-6411-102	930 - R122
VR5-6411-431	930 - R123
VR5-6411-623	970 - R403
VR5-6411-692	970 - R402
VR5-6412-151	910 - R214
	910 - R235
VR5-6412-262	910 - R310
VR5-6413-481	970 - R407
VR5-6413-651	930 - R206
VR5-6413-901	930 - R264
	970 - R401
VR5-6414-991	970 - R406
VR5-6415-112	910 - R209
	910 - R225
VR5-6415-601	930 - R119
VR5-6418-201	930 - R124
VR5-6418-251	910 - R222
VR5-6630-120	910 - R440
	910 - R444
	910 - R452
VR5-6630-132	910 - R401
	910 - R402
	910 - R403
	910 - R405
	910 - R406
	910 - R407
VR5-6630-243	910 - R131
	910 - R133

PART NUMBER	FIGURE & KEY NO.
VR5-6630-243	910 - R134
VR5-6630-563	910 - R131
	910 - R133
	910 - R134
VR5-6640-201	910 - R208
	910 - R215
	910 - R246
VR5-6640-471	910 - R127
VR5-6660-103	915 - VR301
VR7-0430-271	930 - R313
	930 - R314
	930 - R315
VR7-0560-181	910 - R115
VR7-0560-200	910 - R217
	910 - R227
VR7-0560-220	910 - R315
VR7-0560-362	910 - R409
	910 - R410
	910 - R411
	910 - R454
VR7-0560-390	910 - R220
VR7-0560-391	910 - R122
VR7-0560-479	910 - R404
VR7-0611-002	930 - R121
	930 - R181
	930 - R184
	930 - R186
VR7-0611-272	930 - R288
VR7-0611-431	930 - R185
	930 - R187
	930 - R220
VR7-0611-872	930 - R150
VR7-0612-000	930 - R114
VR7-0612-550	930 - R117
VR7-0612-701	930 - R277
VR7-0612-742	930 - R306
VR7-0614-022	930 - R189
VR7-0614-991	930 - R305
VR7-0615-601	930 - R118
VR7-0616-801	930 - R180
VR7-0616-980	930 - R267
VR7-0618-200	930 - R115
VR7-2770-103	930 - VR101
	930 - VR102
VR7-2770-473	930 - VR103
VR7-2930-470	910 - R135
VR7-3100-100	910 - R118
	910 - R119
	910 - R147
	910 - R223
	910 - R418
VR7-3100-101	910 - R148
	910 - R149
	910 - R150
	910 - R153
	910 - R233
	910 - R449
	910 - R455
VR7-3100-102	910 - R139
	910 - R143
	910 - R218
	910 - R244
	910 - R245
	910 - R412
	910 - R424
VR7-3100-103	910 - R101
	910 - R103
	910 - R120
	910 - R203
	910 - R205
	910 - R206
	910 - R207
	910 - R210
	910 - R212
	910 - R213
	910 - R228
	910 - R238
	910 - R307
	910 - R325
	910 - R329
	910 - R330
	910 - R331
	910 - R332
	910 - R408
	910 - R425

COPYRIGHT © 1996 CANON INC.
CANON NP6012/6012F/6212 REV. 1-1 NOV. 1996 PRINTED IN JAPAN (IMPRIME AU JAPON)

D NUMERICAL INDEX
部品索引表

PART NUMBER	FIGURE & KEY NO.
FG5-5489-000	930 -
FG5-5490-000	930 -
FG5-5492-000	910 -
FG5-5493-000	910 -
FG5-5496-000	102 - 71
FG5-5497-000	915 -
FG5-5499-000	450 - 19
FG5-5505-000	930 -
FG5-5506-000	930 -
FG5-5507-000	930 -
FG5-5509-000	101 - 51
FG5-6411-000	290 -
FG5-6412-000	162 -
FG5-6413-000	355 -
FH2-5761-000	102 - 104
FH2-5795-000	B - J 8
	B - J 9
FH2-5796-000	B - J 8
	B - J 9
FH2-6231-000	915 - 3
	B - J111
	B - J301
FH3-0569-000	910 - T301
FH3-0660-000	910 - T302
FH3-0665-000	910 - T104
FH3-0666-000	910 - T104
FH3-0667-000	910 - T103
FH3-0668-000	910 - T201
FH3-0732-000	910 - T101
FH3-0733-000	910 - T101
FH3-0734-000	910 - T401
FH3-0735-000	910 - T402
FH3-0779-000	910 - T102
FH3-0780-000	910 - T102
FH3-7169-000	910 - L401
FH3-7170-000	910 - L101
FH3-7195-000	910 - L101
FH4-1242-000	930 - Q101
FH4-1251-000	930 - Q101
FH4-9163-000	910 - R322
FH4-9169-000	910 - R303
FH4-9186-000	910 - R328
FH6-1078-000	220 - 8
FH6-1209-000	230 - 14
FH6-1237-000	290 - 13
FH6-1238-000	290 - 14
FH6-3494-000	930 - X101
FH7-3272-000	400 - 24
FH7-3277-000	915 - LED315
FH7-4474-000	400 - 25
FH7-4475-000	400 - 25
FH7-5564-000	220 - 9
FH7-5627-000	102 - 72
FH7-5628-000	102 - 73
FH7-5645-000	530 - 31
FH7-6197-000	910 - RL101
FH7-6216-000	102 - 74
FH9-0367-000	910 - R313
	910 - R316
FH9-0483-000	930 - Q142
	930 - Q143
	930 - Q144
	930 - Q145
	930 - Q163
	930 - Q164
	930 - Q180
	930 - Q185
FH9-0484-000	940 - L501
FN1-4210-000	100 - 39
FN5-4018-000	400 - 26
FN5-4019-000	401 - 9
FN5-4020-000	402 - 7
FN5-4021-000	101 - 52
FN5-4072-000	100 - 39
FS1-1190-000	290 - 15
FS1-1205-000	355 - 13
FS1-1341-000	355 - 14
FS5-0883-000	102 - 75
FS5-0885-000	102 - 76
FS5-0887-000	102 - 77
FS5 0890-000	250 - 5
FS5-0900-000	250 - 6
FS5-0903-000	102 - 78
FS5-0904-000	300 - 23
FS5-0905-000	230 - 15

PART NUMBER	FIGURE & KEY NO.
FS5-0906-000	230 - 16
FS5-0907-000	230 - 17
FS5-0908-000	230 - 18
FS5-0911-000	240 - 3
FS5-0912-000	240 - 4
FS5-0913-020	102 - 79
FS5-0914-000	810 - 10
FS5-0915-000	102 - 80
FS5-0917-000	220 - 10
FS5-0918-000	220 - 11
FS5-0919-000	220 - 12
FS5-1439-000	220 - 13
FS5-1440-000	102 - 81
FS5-1530-000	540 - 29
FS5-2032-000	400 - 27
FS5-2335-000	530 - 29A
FS5-2351-000	102 - 82
FS5-2650-000	300 - 24
FS5-2767-000	102 - 83
FS5-2769-000	100 - 40
FS5-2770-000	100 - 41
FS5-2771-000	102 - 84
FS5-2772-000	102 - 85
FS5-2773-000	102 - 86
FS5-2774-000	530 - 32
FS5-2776-000	100 - 42
FS5-2778-000	102 - 87
FS5-2779-000	102 - 88
FS5-2780-000	300 - 25
FS5-2781-020	300 - 26
FS5-2782-000	300 - 27
FS5-2784-000	530 - 33
FS5-2785-000	230 - 19
FS5-2786-000	240 - 5
FS5-2790-000	450 - 20
FS5-2794-000	810 - 11
FS5-2795-000	810 - 12
FS5-2796-000	810 - 13
FS5-2797-000	101 - 53
FS5-2798-000	102 - 89
FS5-2799-000	102 - 90
FS5-2800-000	102 - 91
FS5-2802-000	101 - 54
FS5-2803-000	101 - 55
FS5-2806-000	102 - 92
FS5-2810-000	300 - 28
FS5-2815-000	400 - 28
FS5-2821-000	220 - 14
FS5-3457-000	290 - 16
FS5-3458-000	161 - 46
FS5-3459-000	355 - 15
FS5-3460-000	355 - 16
FS5-6393-000	230 - 20
FS5-6394-000	540 - 30
FS5-6453-000	161 - 47
FS5-6454-000	161 - 48
FS5-6455-000	161 - 49
	355 - 17
FS6-0437-000	540 - 31
FS6-0439-000	540 - 32
FS6-0440-000	540 - 33
FS6-0442-000	540 - 34
FS6-0443-000	540 - 35
FS6-0445-000	540 - 36
FS6-0446-000	540 - 37
FS6-0613-000	290 - 17
FS6-0616-000	290 - 18
FS6-0617-000	290 - 19
FS6-0618-000	290 - 20
FS6-2229-000	450 - 21
FS6-2230-000	450 - 22
FS6-2231-000	450 - 23
FS6-2232-000	102 - 93
	102 - 94
FS6-2233-000	102 - 94
FS6-2234-000	102 - 92
FS6-2238-000	540 - 38
FS6-2239-000	102 - 95
FS6-2240-000	102 - 96
FS6-2241-000	102 - 97
FS6-2242-000	450 - 24
FS6-2243-000	530 - 34
FS6-2270-000	100 - 43
FS6-2369-000	161 - 50
FS6-2370-000	161 - 51

PART NUMBER	FIGURE & KEY NO.
FS6-2371-000	161 - 52
FS6-2373-000	161 - 53
FS6-2374-000	355 - 18
FS6-2375-000	355 - 19
FS6-8194-000	161 - 54
FS6-8195-000	161 - 55
FS6-8196-000	162 - 6A
FS6-8197-000	162 - 8
RH2-5015-000	102 - 104
RH2-5276-000	102 - 104
RH6-3069-000	910 - R306
	910 - R413
	910 - R414
VC1-2061-336	910 - C120
VC1-2101-477	935 - C 1
VC1-2351-107	910 - C110
VC1-2351-477	935 - C 2
VC1-2501-475	935 - C 3
VC3-2501-103	910 - C109
	910 - C112
VC4-3503-101	910 - C205
	910 - C231
VC4-3503-102	910 - C124
	910 - C207
	910 - C228
	910 - C232
	930 - C145
	930 - C148
VC4-3503-332	910 - C208
VC5-2810-682	910 - C413
VC5-3340-106	970 - C401
VC5-3740-104	910 - C104
	910 - C105
	910 - C116
	910 - C122
	910 - C201
	910 - C203
	910 - C215
	910 - C220
	910 C227
	910 - C501
VC5-6000-101	910 - C415
VC5-6110-222	910 - C119
VC5-6110-472	910 C121
VC5-6110-821	910 - C119
	910 - C121
VC5-8660-270	910 - C964
VC5-8660-331	910 - C952
VC5-9610-105	935 - C 8
VC6-0160-222	910 - C313
VC6-0730-476	910 - C406
	910 C419
	910 - C421
VC6-0950-476	910 C106
VC6-1150-103	910 - C218
	910 - C233
VC6-2560-332	910 - C115
VC6-3000-104	930 - C111
	930 - C112
	930 - C114
	930 - C155
	930 - C182
	930 - C184
	930 - C185
	930 - C186
	930 - C206
	970 - C403
	970 - C404
	970 - C405
VC6-3000-473	970 - C406
VC6-3810-336	910 - C314
VC6-3760-335	910 - C117
VC6-3760-336	910 - C114
	910 - C118
VC6-3840-105	910 - C953
	910 - C963
VC6-3840-226	910 - C956
VC6-5910-476	930 - C187
VC7-0590-108	910 - C101
VC7-0590-477	910 - C102
VC7-1150-101	910 - C422
	910 - C425
VC7-1150-102	910 - C311
	910 - C312
	910 - C315

COPYRIGHT © 1995 CANON INC.

D NUMERICAL INDEX
部品索引表

PART NUMBER	FIGURE & KEY NO.
VC7-1150-222	910 - C302
VC7-1150-331	910 - C301
VC7-1160-150	910 - C320
VC7-1410-101	910 - C428
VC7-1410-102	910 - C420
VC7-1770-104	910 - C108
VC7-1770-224	940 - C502
VC7-1770-474	940 - C501
VC7-1960-105	910 - C210
VC7-2090-102	910 - C217
	910 - C219
VC7-2730-472	910 - C318
VC7-2900-100	910 - C951
VC7-3630-227	910 - C211
VC7-3960-337	910 - C202
	910 - C204
VC7-4260-476	930 - C142
VC7-4830-471	910 - C304
	910 - C305
VC7-5130-334	910 - C123
VC7-5130-684	910 - C308
VC7-5250-104	910 - C206
	910 - C209
	910 - C213
	910 - C216
	910 - C221
	910 - C223
	910 - C224
	910 - C225
	910 - C229
	910 - C230
	910 - C303
	910 - C309
	910 - C316
	910 - C319
	910 - C427
VC7-5290-473	910 - C107
	910 - C418
VC7-5400-103	910 - C416
VC7 5980-102	910 - C407
	910 - C424
VC7-5980-681	910 - C402
	910 - C403
	910 - C404
	910 - C405
	910 - C408
	910 - C409
	910 - C410
	910 - C411
	910 - C412
VC7-5990-560	910 - C401
VC7-8400-101	910 - C307
VC8-0650-687	910 - C113
VC8-0660-187	910 - C113
VC8-0780-107	930 - C149
	930 - C151
VC8-0790-107	930 - C146
	930 - C150
VC8-1520-108	910 - C222
VC8-2340-822	930 - C163
	930 - C164
	930 - C165
	930 - C166
VC8-2810-104	910 - C423
VC9-1595-000	940 - C503
	940 - C504
VC9-5047-000	910 - C414
	910 - C426
	910 - C955
	910 - C957
VC9-5344-000	970 - C402
VC9-5391-000	910 - C317
VD7-0215-001	910 - FU102
VD7-0461-202	940 - FU501
VD7-0642-501	910 - FU102
VD7-1508-301	940 - FU501
VL5-0390-086	910 - L103
	940 - L501
VL7-0310-473	910 - L202
VR1-1141-515	910 - R318
VR1-1141-820	915 - R301
	915 - R302
	915 - R303
	915 - R304
	915 - R305

PART NUMBER	FIGURE & KEY NO.
VR1-1141-820	915 - R306
	915 - R307
	915 - R308
VR5-0790-109	930 - R107
	930 - R108
	935 - R 14
	935 - R 15
VR5-0830-101	930 - R163
VR5-1010-104	910 - R314
	910 - R317
VR5-1010-471	910 - R130
VR5-1010-561	910 - R446
	910 - R450
VR5-2650-103	530 - 35
VR5-2650-105	940 - R501
VR5-3520-102	910 - VR101
	910 - VR401
VR5-3520-203	910 - VR953
VR5-3520-503	910 - VR951
	910 - VR952
VR5-3680-000	910 - R211
	910 - R236
VR5-3680-101	930 - R266
VR5-3680-102	930 - R265
VR5-3680-103	910 - R957
	910 - R959
	910 - R960
	910 - R961
	910 - R967
VR5-3680-104	910 - R969
VR5-3680-105	910 - R954
	910 - R955
	910 - R964
	910 - R965
VR5-3680-221	910 - R956
	910 - R966
VR5-3680-243	910 - R951
VR5-3680-273	910 - R962
	910 - R970
VR5-3680-683	910 - R952
VR5-6040-150	910 - R129
VR5-6040-220	910 - R129
VR5-6411-000	930 - R310
	970 - R409
VR5-6411-001	910 - R234
	930 - R125
	930 - R309
VR5-6411-002	910 - R224
	910 - R232
	910 - R416
	930 - R120
	930 - R263
VR5-6411-004	970 - R408
VR5-6411-102	930 - R122
VR5-6411-431	930 - R123
VR5-6411-623	970 - R403
VR5-6411-692	970 - R402
VR5-6412-151	910 - R214
	910 - R235
VR5-6412-262	910 - R310
VR5-6413-481	970 - R407
VR5-6413-651	930 - R206
VR5-6413-901	930 - R264
	970 - R401
VR5-6414-991	970 - R406
VR5-6415-112	910 - R209
	910 - R225
VR5-6415-601	930 - R119
VR5-6418-201	930 - R124
VR5-6418-251	910 - R222
VR5-6630-120	910 - R440
	910 - R444
	910 - R452
VR5-6630-132	910 - R401
	910 - R402
	910 - R403
	910 - R405
	910 - R406
	910 - R407
VR5-6630-243	910 - R131
	910 - R133
	910 - R134
VR5-6630-563	910 - R131
	910 - R133
	910 - R134

PART NUMBER	FIGURE & KEY NO.
VR5-6640-201	910 - R206
	910 - R215
	910 - R246
VR5-6640-471	910 - R127
VR5-6660-103	915 - VR301
VR7-0430-271	930 - R313
	930 - R314
	930 - R315
VR7-0560-181	910 - R115
VR7-0560-200	910 - R217
	910 - R227
VR7-0560-220	910 - R315
VR7-0560-362	910 - R409
	910 - R410
	910 - R411
	910 - R454
VR7-0560-390	910 - R220
VR7-0560-391	910 - R122
VR7-0560-479	910 - R404
VR7-0611-002	930 - R121
	930 - R181
	930 - R184
	930 - R186
VR7-0611-272	930 - R288
VR7-0611-431	930 - R185
	930 - R187
	930 - R220
VR7-0611-872	930 - R150
VR7-0612-000	930 - R114
VR7-0612-550	930 - R117
VR7-0612-701	930 - R277
VR7-0612-742	930 - R306
VR7-0614-022	930 - R189
VR7-0614-991	930 - R305
VR7-0615-601	930 - R118
VR7-0616-801	930 - R180
VR7-0616-980	930 - R267
VR7-0618-200	930 - R115
VR7-2770-103	930 - VR101
	930 - VR102
VR7-2770-473	930 - VR103
VR7-2930-470	910 - R135
VR7-3100-100	910 - R118
	910 - R119
	910 - R147
	910 - R223
	910 - R418
VR7-3100-101	910 - R148
	910 - R149
	910 - R150
	910 - R153
	910 - R233
	910 - R449
	910 - R455
VR7-3100-102	910 - R139
	910 - R143
	910 - R218
	910 - R244
	910 - R245
	910 - R412
	910 - R424
VR7-3100-103	910 - R101
	910 - R103
	910 - R120
	910 - R203
	910 - R205
	910 - R206
	910 - R207
	910 - R210
	910 - R212
	910 - R213
	910 - R228
	910 - R238
	910 - R307
	910 - R325
	910 - R329
	910 - R330
	910 - R331
	910 - R332
	910 - R408
	910 - R425
	910 - R435
	910 - R438
	910 - R442
	910 - R451

COPYRIGHT © 1995 CANON INC.
CANON NP6012/6012F/6212 REV.1 OCT. 1995 PRINTED IN JAPAN [IMPRIME AU JAPON]

D NUMERICAL INDEX
部品索引表

PART NUMBER	FIGURE & KEY NO.
VR7-3100-103	910 - R435
	910 - R438
	910 - R442
	910 - R451
VR7-3100-104	910 - R144
	910 - R145
	910 - R219
	910 - R243
	910 - R309
	910 - R427
VR7-3100-122	910 - R422
VR7-3100-153	910 - R111
	910 - R432
VR7-3100-181	910 - R121
	910 - R126
VR7-3100-182	910 - R104
	910 - R415
VR7-3100-202	910 - R426
	910 - R433
	910 - R445
	910 - R447
	910 - R448
VR7-3100-203	910 - R305
	910 - R434
VR7-3100-222	910 - R116
	910 - R230
	910 - R319
	910 - R321
	910 - R326
VR7-3100-223	910 - R226
	910 - R323
VR7-3100-242	910 - R221
VR7-3100-272	910 - R419
VR7-3100-301	910 - R423
VR7-3100-309	910 - R102
VR7-3100-332	910 - R112
VR7-3100-392	910 - R242
VR7-3100-470	910 - R136
	910 - R327
VR7-3100-471	910 - R117
	910 - R143
	910 - R202
	910 - R441
VR7-3100-472	910 - R114
	910 - R138
	910 - R151
	910 - R204
	910 - R324
	910 - R417
	910 - R420
	910 - R428
	910 - R429
	910 - R430
	910 - R431
	910 - R436
	910 - R437
	910 - R443
VR7-3100-473	910 - R154
	910 - R240
	910 - R453
VR7-3100-560	910 - R231
VR7-3100-562	910 - R108
VR7-3100-622	910 - R152
VR7-3100-682	910 - R241
VR7-3100-821	910 - R239
VR7-3100-822	910 - R137
VR7-3210-103	910 - R302
VR7-3210-474	910 - R301
VR7-3680-029	935 - R 1
VR7-4110-100	910 - R141
	910 - R142
VR7-4110-151	910 - R113
	910 - R124
VR7-4110-301	910 - R113
VR7-5130-101	930 - R148
VR7-5130-102	930 - R101
	930 - R102
	930 - R104
	930 - R135
	930 - R136
	930 - R137
	930 - R138
	930 - R160
	930 - R188
	930 - R210

PART NUMBER	FIGURE & KEY NO.
VR7-5130-102	930 - R211
	930 - R218
	930 - R219
	930 - R269
	930 - R278
	930 - R279
	930 - R280
VR7-5130-103	930 - R105
	930 - R106
	930 - R110
	930 - R127
	930 - R128
	930 - R129
	930 - R130
	930 - R131
	930 - R132
	930 - R133
	930 - R134
	930 - R167
	930 - R169
	930 - R170
	930 - R171
	930 - R172
	930 - R173
	930 - R174
	930 - R175
	930 - R176
	930 - R177
	930 - R182
	930 - R183
	930 - R191
	930 - R192
	930 - R193
	930 - R205
	930 - R212
	930 - R213
	930 - R214
	930 - R215
	930 - R228
	930 - R229
	930 - R230
	930 - R232
	930 - R233
	930 - R234
	930 - R235
	930 - R236
	930 - R237
	930 - R238
	930 - R239
	930 - R240
	930 - R241
	930 - R242
	930 - R243
	930 - R248
	930 - R249
	930 - R271
	930 - R273
	930 - R281
	930 - R282
	930 - R304
VR7-5130-151	930 - R286
VR7-5130-181	930 - R197
	930 - R200
	930 - R217
VR7-5130-221	930 - R164
VR7-5130-222	930 - R296
	930 - R303
VR7-5130-242	930 - R112
	930 - R113
VR7-5130-331	930 - R308
VR7-5130-332	930 - R116
	930 - R161
	930 - R162
	930 - R165
	930 - R166
	930 - R276
	930 - R295
VR7-5130-333	930 - R154
	930 - R275
VR7-5130-432	930 - R126
VR7-5130-472	930 - R149
	930 - R158
	930 - R190
	930 - R196
	930 - R224

PART NUMBER	FIGURE & KEY NO.
VR7-5130-472	930 - R225
	930 - R226
	930 - R227
	930 - R244
	930 - R245
	930 - R246
	930 - R250
	930 - R272
	930 - R293
	930 - R299
	930 - R300
VR7-5130-473	930 - R109
	930 - R111
	930 - R231
VR7-5130-474	930 - R292
	930 - R294
	930 - R297
	930 - R298
	930 - R301
	930 - R302
	930 - R311
	930 - R312
VR7-5130-562	930 - R270
	930 - R316
VR9-3619-000	930 - VR107
VR9-5148-000	910 - R201
VR9-5231-000	910 - R421
VR9-5328-000	910 - R132
VR9-5329-000	910 - R128
VR9-5338-000	910 - R216
VR9-5339-000	910 - R237
VS1-0279-004	B - J101
VS1-0279-005	B - J107
	B - J401
VS1-0279-006	B - J105
	B - J206
VS1-0571-005	930 - J107
VS1-0571-006	910 - J206
	930 - J105
VS1-0715-005	970 - J401
VS1-0842-002	B - J 3
	B - J 4
	B - J 5
	B - J104
	B - J801
VS1-0842-003	B - J 6
	B - J 7
	B - J 9
	B - J 10
	B - J 11
	B - J 12
	B - J 19
	B - J 22
	B - J101
	B - J201
	B - J202
	B - J954
VS1-0842-004	B - J112
VS1-0842-005	B - J103
	B - J108
	B - J121
	B - J751
VS1-0842-006	B - J105
	B - J120
	B - J901
VS1-0842-007	B - J 3
	B - J 20
	B - J 21
	B - J104
	B - J204
VS1-0842-008	B - J 2
	B - J102
	B - J114
VS1-0842-009	B - J 5
VS1-0842-012	B - J103
	B - J203
VS1-0842-014	B - J109
VS1-0852-003	B - J203
VS1-0861-003	B - J214
VS1-0861-006	B - J205
	B - J851
VS1-0978-002	B - J302
	B - J303
	B - J402
	B - J403

COPYRIGHT © 1995 CANON INC.

D NUMERICAL INDEX
部品索引表

PART NUMBER	FIGURE & KEY NO.
VS1-1028-002	930 - J106
	930 - J117
	930 - J119
VS1-1028-003	930 - J101
	930 - J123
VS1-1028-004	930 - J112
VS1-1028-005	930 - J108
	930 - J121
VS1-1028-006	930 - J110
	930 - J120
VS1-1028-007	930 - J104
	935 - J 3
VS1-1028-008	930 - J114
	935 - J 2
VS1-1028-009	935 - J 5
VS1-1028-010	930 - J102
VS1-1028-012	930 - J103
VS1-1028-014	930 - J109
VS1-1029-002	930 - J122
VS1-5057-002	102 - 99
	102 - 100
	220 - 15
	B - J 3
	B - J 4
	B - J 5
VS1-5057-003	101 - 58
	102 - 71B
	102 - 101
	B - J 6
	B - J 9
	B - J 22
VS1-5057-006	161 - 44A
	220 - 16
	B - J105
VS1-5057-008	101 - 59
	B - J102
	B - J114
VS1-5474-002	935 - J 6
VS1-5474-004	935 - J 1
VS1-5474-006	910 - J202
VS1-5484-002	910 - J211
VS1-5517-002	910 - J951
VS1-5517-007	910 - J204
VS1-5517-012	910 - J203
VS1-5600-002	915 - J304
VS1-5600-003	910 - J953
VS1-5600-006	930 - J001
VS1-5711-019	915 - J301
VS1-5824-002	B - J106
	B - J601
	B - J602
	B - J951
VS1-5826-019	930 - J111
VS3-0053-002	B - J 16
VS3-0108-004	B - J101
VS3-5083-002	B - J 6
VS3-5083-003	B - J211
VS3-5083-004	B - J 1
VS3-5083-006	B - J202
VT2-5020-010	101 - 60
VT2-5020-016	101 - 61
VV1-2000-000	930 - JP 6
VV1-7000-000	935 - JP 1
VV1-7118-101	935 - R 9
VV1-7118-102	935 - R 30
	935 - R 34
	935 - R 41
	935 - R 42
	935 - R 43
VV1-7118-103	935 - R 3
	935 - R 4
	935 - R 5
	935 - R 6
	935 - R 25
	935 - R 26
	935 - R 27
	935 - R 28
	935 - R 32
	935 - R 36
	935 - R 37
	935 - R 38
	935 - R 39
	935 - R 44
	935 - R 45
VV1-7118-182	935 - R 2
VV1-7118-222	935 - R 12
	935 - R 13
	935 - R 31
	935 - R 35
VV1-7118-223	935 - R 19
	935 - R 21
	935 - R 23
VV1-7118-271	935 - R 20
	935 - R 22
	935 - R 24
VV1-7118-391	935 - R 8
VV1-7118-471	935 - R 29
	935 - R 33
VV1-7118-473	935 - R 10
	935 - R 11
VW4-2027-104	935 - C 4
	935 - C 9
	935 - C 10
VW4-2037-101	930 - C179
VW4-2037-102	930 - C101
	930 - C127
	930 - C128
	930 - C129
	930 - C131
	930 - C132
	930 - C133
	930 - C136
	930 - C137
	930 - C138
	930 - C139
	930 - C140
	930 - C141
	930 - C147
	930 - C152
	930 - C153
	930 - C157
	930 - C162
	930 - C168
	930 - C169
	930 - C170
	930 - C171
	930 - C172
	930 - C173
	930 - C174
	930 - C175
	930 - C178
	930 - C181
	930 - C183
	930 - C200
	930 - C203
VW4-2037-104	930 - C104
	930 - C105
	930 - C143
	930 - C144
	930 - C158
	930 - C159
	930 - C160
	930 - C161
	930 - C167
	930 - C202
	930 - C205
VW4-2037-223	930 - C191
	930 - C194
	930 - C201
VW4-2037-332	930 - C126
	930 - C192
	930 - C193
VW4-2231-509	935 - C 6
	935 - C 7
VW4-2234-101	935 - C 19
	935 - C 20
VW4-2234-150	930 - C102
	930 - C103
VW4-2235-471	935 - C 11
	935 - C 12
VW4-2835-102	935 - C 5
	935 - C 16
	935 - C 17
	935 - C 18
	935 - C 21
VW4-2835-222	930 - C106
	930 - C107
	935 - C 13
	935 - C 14
VW4-2835-821	930 - C108
VW4-2835-821	930 - C109
WA1-0302-000	910 - D411
WA1-0396-000	910 - D301
	910 - D303
	910 - D305
	910 - D306
	910 - D307
	910 - D308
	910 - D951
	910 - D961
WA1-0630-000	910 - D412
WA1-0777-000	910 - D102
	910 - D119
	910 - D417
	930 - D183
WA1-0818-000	910 - ZD203
WA1-0887-000	910 - D105
	910 - D106
	910 - D107
	910 - D111
	910 - D112
	910 - D113
	910 - D114
	910 - D115
	910 - D116
	910 - D117
	910 - D118
	910 - D201
	910 - D205
	910 - D206
	910 - D207
	910 - D208
	910 - D212
	910 - D213
	910 - D214
	910 - D215
	910 - D216
	910 - D309
	910 - D310
	910 - D311
	910 - D403
	910 - D414
	910 - D415
	910 - D416
	910 - D952
	910 - D953
	910 - D962
	910 - D963
	935 - D 1
	935 - D 2
	935 - D 3
WA1-0948-000	910 - ZD401
WA1-0960-000	930 - D196
	930 - D197
	930 - D204
	930 - D205
	930 - D206
WA1-0972-000	910 - D202
	930 - D124
	930 - D125
	930 - D126
	930 - D127
	930 - D189
	930 - D191
	930 - D198
WA1-0977-000	910 - Q113
WA1-1001-000	910 - ZD402
WA1-1027-000	910 - ZD403
WA1-1047-000	935 - ZD 1
WA1-1124-000	910 - D401
	910 - D402
	910 - D404
	910 - D405
	910 - D406
	910 - D407
	910 - D408
	910 - D409
	910 - D410
	910 - D413
WA1-5027-000	910 - ZD201
WA1-5069-000	910 - D108
	910 - D109
	910 - D110
WA1-5071-000	930 - ZD102
	930 - ZD103

COPYRIGHT © 1995 CANON INC.
CANON NP6012/6012F/6212 REV.1-1 NOV. 1996 PRINTED IN JAPAN (IMPRIME AU JAPON)

D NUMERICAL INDEX
部品索引表

PART NUMBER	FIGURE & KEY NO.
VR7-3100-104	910 - R144
	910 - R145
	910 - R219
	910 - R243
	910 - R309
	910 - R427
VR7-3100-122	910 - R422
VR7-3100-153	910 - R111
	910 - R432
VR7-3100-181	910 - R121
	910 - R126
VR7-3100-182	910 - R104
	910 - R415
VR7-3100-202	910 - R426
	910 - R433
	910 - R445
	910 - R447
	910 - R448
VR7 3100-203	910 - R305
	910 - R434
VR7-3100-222	910 - R116
	910 - R230
	910 - R319
	910 - R321
	910 - R326
VR7-3100-223	910 - R226
	910 - R323
VR7-3100-242	910 - R221
VR7-3100-272	910 - R419
VR7-3100-301	910 - R423
VR7-3100-309	910 - R102
VR7-3100-332	910 - R112
VR7-3100-392	910 - R242
VR7-3100-470	910 - R136
	910 - R327
VR7-3100-471	910 - R117
	910 - R143
	910 - R202
	910 - R441
VR7-3100-472	910 - R114
	910 - R138
	910 - R151
	910 - R204
	910 - R324
	910 - R417
	910 - R420
	910 - R428
	910 - R429
	910 - R430
	910 - R431
	910 - R436
	910 - R437
	910 - R443
VR7-3100-473	910 - R154
	910 - R240
	910 - R453
VR7-3100-560	910 - R231
VR7-3100-562	910 - R108
VR7-3100-622	910 - R152
VR7-3100-682	910 - R241
VR7-3100-821	910 - R239
VR7-3100-822	910 - R137
VR7-3210-103	910 - R302
VR7-3210-474	910 - R301
VR7-3680-029	935 - R 1
VR7-4110-100	910 - R141
	910 - R142
VR7-4110-151	910 - R113
	910 - R124
VR7-4110-301	910 - R113
VR7-5130-101	930 - R148
VR7-5130-102	930 - R101
	930 - R102
	930 - R104
	930 - R135
	930 - R136
	930 - R137
	930 - R138
	930 - R160
	930 - R188
	930 - R210
	930 - R211
	930 - R218
	930 - R219
	930 - R269

PART NUMBER	FIGURE & KEY NO.
VR7-5130-102	930 - R278
	930 - R279
	930 - R280
VR7-5130-103	930 - R105
	930 - R106
	930 - R110
	930 - R127
	930 - R128
	930 - R129
	930 - R130
	930 - R131
	930 - R132
	930 - R133
	930 - R134
	930 - R167
	930 - R169
	930 - R170
	930 - R171
	930 - R172
	930 - R173
	930 - R174
	930 - R175
	930 - R176
	930 - R177
	930 - R182
	930 - R183
	930 - R191
	930 - R192
	930 - R193
	930 - R205
	930 - R212
	930 - R213
	930 - R214
	930 - R215
	930 - R228
	930 - R229
	930 - R230
	930 - R232
	930 - R233
	930 - R234
	930 - R235
	930 - R236
	930 - R237
	930 - R238
	930 - R239
	930 - R240
	930 - R241
	930 - R242
	930 - R243
	930 - R248
	930 - R249
	930 - R271
	930 - R273
	930 - R281
	930 - R282
	930 - R304
VR7-5130-151	930 - R286
VR7-5130-181	930 - R197
	930 - R200
	930 - R217
VR7-5130-221	930 - R164
VR7-5130-222	930 - R296
	930 - R303
VR7-5130-242	930 - R112
	930 - R113
VR7-5130-331	930 - R308
VR7-5130-332	930 - R116
	930 - R161
	930 - R162
	930 - R165
	930 - R166
	930 - R276
	930 - R295
VR7-5130-333	930 - R154
	930 - R275
VR7-5130-432	930 - R126
VR7-5130-472	930 - R149
	930 - R158
	930 - R190
	930 - R196
	930 - R224
	930 - R225
	930 - R226
	930 - R227
	930 - R244

PART NUMBER	FIGURE & KEY NO.
VR7-5130-472	930 - R245
	930 - R246
	930 - R250
	930 - R272
	930 - R293
	930 - R299
	930 - R300
VR7-5130-473	930 - R109
	930 - R111
	930 - R231
VR7-5130-474	930 - R292
	930 - R294
	930 - R297
	930 - R298
	930 - R301
	930 - R302
	930 - R311
	930 - R312
VR7-5130-562	930 - R270
	930 - R316
VR9-3619-000	930 - VR107
VR9-5148-000	910 - R201
VR9-5231-000	910 - R421
VR9-5328-000	910 - R132
VR9-5329-000	910 - R128
VR9-5338-000	910 - R216
VR9-5339-000	910 - R237
VS1-0279-004	B - J101
VS1-0279-005	B - J107
	B - J401
VS1-0279-006	B - J105
	B - J206
VS1-0571-005	930 - J107
VS1-0571-006	910 J206
	930 - J105
VS1-0715-005	970 - J401
VS1-0842-002	B - J 3
	B - J 4
	B - J 5
	B - J104
	B - J801
VS1-0842-003	B - J 6
	B - J 7
	B - J 9
	B - J 10
	B - J 11
	B - J 12
	B - J 19
	B - J 22
	B - J101
	B J201
	B - J202
	B - J954
VS1-0842-004	B - J112
VS1-0842-005	B - J103
	B - J108
	B - J121
	B - J751
VS1-0842-006	B - J105
	B - J120
	B - J901
VS1-0842-007	B - J 3
	B - J 20
	B - J 21
	B - J104
	B - J204
VS1-0842-008	B - J 2
	B - J102
	B - J114
VS1-0842-009	B - J 5
VS1-0842-012	B - J103
	B - J203
VS1-0842-014	B - J109
VS1-0852-003	B - J203
VS1-0861-003	B - J214
VS1-0861-006	B - J205
	B - J851
VS1-0978-002	B - J302
	B - J303
	B - J402
	B - J403
VS1-1028-002	930 - J106
	930 J117
	930 - J119
VS1-1028-003	930 J101

COPYRIGHT © 1995 CANON INC.
CANON NP6012/6012F/6212 REV.1 OCT.1995 PRINTED IN JAPAN [IMPRIME AU JAPON]

D NUMERICAL INDEX
部品索引表

PART NUMBER	FIGURE & KEY NO.
VS1-1028-003	930-J123
VS1-1028-004	930-J112
VS1-1028-005	930-J108
	930-J121
VS1-1028-006	930-J110
	930-J120
VS1-1028-007	930-J104
	935-J3
VS1-1028-008	930-J114
	935-J2
VS1-1028-009	935-J5
VS1-1028-010	930-J102
VS1-1028-012	930-J103
VS1-1028-014	930-J109
VS1-1029-002	930-J122
VS1-5057-002	102-98
	102-99
	220-15
	B-J3
	B-J4
	B-J5
VS1-5057-003	101-56
	102-71B
	102-100
	B-J6
	B-J9
	B-J22
VS1-5057-006	161-44A
	220-16
	B-J105
VS1-5057-008	101-57
	B-J102
	B-J114
VS1-5474-002	935-J6
VS1-5474-004	935-J1
VS1-5474-006	910-J202
VS1-5484-002	910-J211
VS1-5517-002	910-J951
VS1-5517-007	910-J204
VS1-5517-012	910-J203
VS1-5600-002	915-J304
VS1-5600-003	910-J953
VS1-5600-006	930-J001
VS1-5711-019	915-J301
VS1-5824-002	B-J106
	B-J601
	B-J602
	B-J951
VS1-5826-019	930-J111
VS3-0053-002	B-J16
VS3-0108-004	B-J101
VS3-5083-002	B-J6
VS3-5083-003	B-J211
VS3-5083-004	B-J1
VS3-5083-006	B-J202
VT2-5020-010	101-58
VT2-5020-016	101-59
VV1-2000-000	930-JP6
VV1-7000-000	935-JP1
VV1-7118-101	935-R9
VV1-7118-102	935-R30
	935-R34
	935-R41
	935-R42
	935-R43
VV1-7118-103	935-R3
	935-R4
	935-R5
	935-R6
	935-R25
	935-R26
	935-R27
	935-R28
	935-R32
	935-R36
	935-R37
	935-R38
	935-R39
	935-R44
	935-R45
VV1-7118-182	935-R2
VV1-7118-222	935-R12
	935-R13
	935-R31
	935-R35

PART NUMBER	FIGURE & KEY NO.
VV1-7118-223	935-R19
	935-R21
	935-R23
VV1-7118-271	935-R20
	935-R22
	935-R24
VV1-7118-391	935-R8
VV1-7118-471	935-R29
	935-R33
VV1-7118-473	935-R10
	935-R11
VW4-2027-104	935-C4
	935-C9
	935-C10
VW4-2037-101	930-C179
VW4-2037-102	930-C101
	930-C127
	930-C128
	930-C129
	930-C131
	930-C132
	930-C133
	930-C136
	930-C137
	930-C138
	930-C139
	930-C140
	930-C141
	930-C147
	930-C152
	930-C153
	930-C157
	930-C162
	930-C168
	930-C169
	930-C170
	930-C171
	930-C172
	930-C173
	930-C174
	930-C175
	930-C178
	930-C181
	930-C183
	930-C200
	930-C203
VW4-2037-104	930-C104
	930-C105
	930-C143
	930-C144
	930-C158
	930-C159
	930-C160
	930-C161
	930-C167
	930-C202
	930-C205
VW4-2037-223	930-C191
	930-C194
	930-C201
VW4-2037-332	930-C126
	930-C192
	930-C193
VW4-2231-509	935-C6
	935-C7
VW4-2234-101	935-C19
	935-C20
VW4-2234-150	930-C102
	930-C103
VW4-2235-471	935-C11
	935-C12
VW4-2835-102	935-C5
	935-C16
	935-C17
	935-C18
	935-C21
VW4-2835-222	930-C106
	930-C107
	935-C13
	935-C14
VW4-2835-821	930-C108
	930-C109
WA1-0302-000	910-D411
WA1-0396-000	910-D301
	910-D303

PART NUMBER	FIGURE & KEY NO.
WA1-0396-000	910-D305
	910-D306
	910-D307
	910-D308
	910-D951
	910-D961
WA1-0630-000	910-D412
WA1-0777-000	910-D102
	910-D119
	910-D417
	930-D183
WA1-0818-000	910-ZD203
WA1-0887-000	910-D105
	910-D106
	910-D107
	910-D111
	910-D112
	910-D113
	910-D114
	910-D115
	910-D116
	910-D117
	910-D118
	910-D201
	910-D205
	910-D206
	910-D207
	910-D208
	910-D212
	910-D213
	910-D214
	910-D215
	910-D216
	910-D309
	910 D310
	910-D311
	910-D403
	910 D414
	910-D415
	910-D416
	910-D952
	910-D953
	910-D962
	910 D963
	935-D1
	935-D2
	935-D3
WA1-0948-000	910-ZD401
WA1-0960-000	930-D196
	930-D197
	930-D204
	930-D205
	930-D206
WA1-0972-000	910-D202
	930-D124
	930-D125
	930-D126
	930-D127
	930-D189
	930-D191
	930-D198
WA1-0977-000	910-Q113
WA1-1001-000	910-ZD402
WA1-1027-000	910-ZD403
WA1-1047-000	935-ZD1
WA1-1124-000	910-D401
	910-D402
	910-D404
	910-D405
	910-D406
	910-D407
	910-D408
	910-D409
	910-D410
	910 D413
WA1-5027-000	910-ZD201
WA1-5069-000	910-D108
	910-D109
	910 D110
WA1-5071-000	930-ZD102
	930-ZD103
	930-ZD104
WA1-5163-000	910-ZD202
WA1-5238-000	910-D101
	910-D103

COPYRIGHT © 1995 CANON INC.
CANON NP6012/6012F/6212 REV.1 OCT. 1995 PRINTED IN JAPAN (IMPRIME AU JAPON)

D NUMERICAL INDEX
部品索引表

PART NUMBER	FIGURE & KEY NO.
WA1-5071-000	930 - ZD104
WA1-5163-000	910 - ZD202
WA1-5238-000	910 - D101
	910 - D103
	910 - D104
WA1-5423-000	930 - ZD101
WA1-5473-000	910 - D209
	910 - D210
WA1-5548-000	910 - D203
WA1-5557-000	910 - D211
WA1-5565-000	910 - D204
WA1-5662-000	910 - D418
	910 - D419
	910 - D420
	910 - D421
WA1-5667-000	930 - D102
	930 - D103
	930 - D108
	930 - D112
	930 - D113
	930 - D114
	930 - D115
	930 - D117
	930 - D128
	930 - D132
	930 - D133
	930 - D184
	930 - D185
	930 - D186
	930 - D188
	930 - D190
	930 - D193
	930 - D195
	930 - D199
	930 - D200
	930 - D201
	930 - D202
	930 - D203
	930 - D207
	930 - D208
WA2-0036-000	910 - Q405
WA2-0058-000	910 - Q122
WA2-0124-000	910 - Q107
	910 - Q202
	910 - Q212
	910 - Q303
	910 - Q307
	910 - Q403
	910 - Q406
	910 - Q408
	910 - Q411
	910 - Q416
	910 - Q951
	910 - Q952
	910 - Q954
	910 - Q955
WA2-0135-000	910 - Q118
	910 - Q304
WA2-0237-000	910 - Q115
	910 - Q207
	910 - Q417
	910 - Q419
WA2-0362-000	910 - Q103
	910 - Q119
	910 - Q209
WA2-0383-000	930 - Q133
WA2-0772-000	910 - Q105
	910 - Q106
	910 - Q110
	910 - Q409
	910 - Q412
	910 - Q413
	910 - Q414
WA2-0775-000	910 - Q104
WA2-0796-000	910 - Q306
WA2-0834-000	935 - Q 9
	935 - Q 10
	935 - Q 11
WA2-0863-000	930 - Q110
WA2-1348-000	910 - Q101
WA2-1414-000	910 - Q410
WA2-1506-000	910 - Q402
WA2-5016-000	910 - Q407
WA2-5457-000	910 - Q116
	910 - Q117

PART NUMBER	FIGURE & KEY NO.
WA2-5503-000	910 - Q301
WA2-5505-000	910 - Q205
WA2-5511-000	910 - Q305
	910 - Q404
WA2-5633-000	910 - Q120
WA2-5682-000	910 - Q415
WA2-5863-000	910 - Q116
	910 - Q117
WA2-5873-000	930 - Q103
	930 - Q132
	930 - Q137
	930 - Q147
	930 - Q150
	930 - Q151
	930 - Q165
	930 - Q167
	930 - Q173
	930 - Q174
	930 - Q176
	930 - Q184
WA2-5874-000	930 - Q102
	930 - Q104
	930 - Q111
	930 - Q112
	930 - Q113
	930 - Q114
	930 - Q115
	930 - Q116
	930 - Q117
	930 - Q118
	930 - Q119
	930 - Q120
	930 - Q131
	930 - Q134
	930 - Q135
	930 - Q136
	930 - Q138
	930 - Q139
	930 - Q140
	930 - Q146
	930 - Q148
	930 - Q149
	930 - Q152
	930 - Q155
	930 - Q157
	930 - Q158
	930 - Q160
	930 - Q161
	930 - Q162
	930 - Q182
	930 - Q183
	910 - Q401
	930 - Q121
	930 - Q122
	930 - Q123
	930 - Q124
WA3-2028-000	910 - Q418
WA3-4209-000	930 - Q153
WA3-4465-000	935 - Q 6
WA3-8310-000	935 - Q 1
WA4-0233-000	910 - Q203
	910 - Q206
	910 - Q953
WA4-0324-000	910 - Q121
WA4-0539-000	910 - Q208
WA4-0590-000	930 - Q107
WA4-0928-000	935 - Q 3
WA4-1269-000	935 - Q 5
WA4-5094-000	910 - Q102
WA4-5171-000	910 - Q502
WA4-5180-000	970 - Q401
WA4-5214-000	930 - Q109
	935 - Q 4
WA4-5228-000	930 - Q106
WA4-5591-000	910 - Q201
WA4-5939-000	930 - Q108
WA4-5980-000	930 - Q105
WA4-6294-000	930 - Q179
WA4-6539-000	930 - Q186
WA5-0093-000	910 - Q111
WA5-0094-000	910 - Q111
WA5-5009-000	910 - Q108
WA5-5100-000	910 - Q114
WA5-5101-000	910 - Q108
WA9-0058-000	935 - Q 2

PART NUMBER	FIGURE & KEY NO.
WC1-5037-000	910 - 8
WC2-5057-000	935 - PSW
WC2-5102-000	915 - SW301
	915 - SW302
	915 - SW303
	915 - SW304
	915 - SW305
	915 - SW306
	915 - SW307
	915 - SW308
	915 - SW309
WC4-5030-000	161 - 56
WC5-5115-000	935 - SW 2
WC8-0222-000	935 - SW 1
WD3-0040-000	935 - CB 1
WD9-5028-000	940 - 3
WE2-5032-000	935 - L 1
WE2-5153-000	910 - L201
WG1-5280-000	915 - LED301
	915 - LED302
	915 - LED303
	915 - LED304
	915 - LED305
	915 - LED306
	915 - LED308
	915 - LED310
	915 - LED311
	915 - LED312
WG1-5281-000	915 - LED307
	915 - LED313
	915 - LED314
	915 - LED316
	915 - LED317
WG3-0055-000	970 - PD401
	970 - PD402
WG8-5001-000	101 - 62
	101 - 63
	450 - 25
	810 - 14
WG8-5180-000	910 - Q109
WG8-5187-000	101 - 64
WG8-5199-000	910 - Q112
WG8-5206-000	161 - 57
	161 - 58
WK1-0082-000	930 - BAT 1
WK2-0516-000	935 - X 1
WK2-5429-000	910 - X501
WK3-5040-000	930 - NF001
WS3-0437-000	B - J105
	B - J107
	B - J206
	B - J401
WS3-0885-000	B - J101
WS3-5160-000	B - J 1
	B - J202
	B - J211
WS3-5174-000	B - J 2
	B - J201
	B - J207
	B - J501
WS3-5175-000	B - J201
	B - J207
	B - J501
WS3-5352-000	B - J 2
WS3-5353-000	B - J 2
WS3-5354-000	B - J 2
WS3-5355-000	910 - J201
	910 - J207
	940 - J501
WS3-5358-000	B - J106
	B - J601
	B - J602
	B - J951
WS4-0181-000	B - J101
WS4-0218-000	B - J 16
WS6-5092-000	B - J 20
	B - J 21
WT1-0433-000	910 - J209
	910 - J215
WT1-5211-000	910 - J212
	910 - J213
WT2-0204-010	161 - 59
WT2-0317-000	161 - 60
WT2-0494-000	102 - 102
WT2-0495-000	910 - 9

COPYRIGHT © 1995 CANON INC.

D NUMERICAL INDEX
部品索引表

PART NUMBER	FIGURE & KEY NO.
WT2-5026-000	101 - 65
	102 - 103
WT2-5035-000	101 - 66
WT2-5056-000	910 - 10
WT2-5306-000	910 - 11
WT2-5335-000	102 - 104
WT2-5389-000	910 - 12
WT3-5021-000	102 - 105
X62-8249-000	910 - SQ101
	910 - SQ102
X65-5032-000	915 - D301
	915 - D302
	915 - D303
	915 - D304
XA9-0187-000	101 - 67
	101 - 68
	220 - 17
XA9-0632-000	161 - 61
	161 - 62
XA9-0633-000	161 - 63
	355 - 20
XA9-0650-000	450 - 26
XA9-0760-000	100 - 43
	101 - 69
	220 - 18
	230 - 21
XA9-0762-000	100 - 44
XA9-0763-000	102 - 106
XA9-0794-000	101 - 70
XA9-0819-000	101 - 71
XB1-2260-309	290 - 501
XB1-2300-407	300 - 501
XB1-2300-409	102 - 501
	220 - 501
	640 - 501
	810 - 501
XB1-2300-607	530 - 501
	910 - 501
XB1-2300-609	101 - 501
	230 - 501
	400 - 501
	402 - 501
	530 - 502
XB1-2300-809	102 - 502
	402 - 502
XB1-2400-609	161 - 501
	230 - 502
	290 - 502
XB1-2402-009	290 - 503
XB2-6300-607	810 - 502
XB2-7300-607	101 - 502
	102 - 503
XB2-7400-607	290 - 504
XB2-8300-607	400 - 502
XB2-8300-807	910 - 502
XB4-7200-609	100 - 501
XB4-7300-509	300 - 502
XB4-7300-609	100 - 502
	101 - 503
	101 - 504
	530 - 503
XB4-7300-809	101 - 505
	101 - 506
	101 - 507
	102 - 504
	400 - 503
	401 - 501
	402 - 503
	530 - 504
	640 - 502
XB4-7301-009	161 - 502
	401 - 502
	530 - 505
	640 - 503
XB4-7400-609	102 - 505
	355 - 501
XB4-7400-809	161 - 503
	162 - 501
XB4-7401-009	100 - 503
XB4-7401-209	161 - 504
XB5-2301-209	161 - 505
XB6-2300-808	400 - 504
	401 - 503
	402 - 504
XB6-7300-609	102 - 506

PART NUMBER	FIGURE & KEY NO.
XB7-2200-409	401 - 504
XD1-2100-307	530 - 506
XD2-1100-322	161 - 506
	355 - 502
XD2-1100-402	102 - 507
XD2-1100-502	290 - 505
	355 - 503
	640 - 504
	811 - 501
XD2-1100-642	161 - 507
	355 - 504
XD2-2100-802	161 - 508
XD2-2300-202	810 - 503
XD2-2300-502	101 - 508
	161 - 509
XD3-2160-062	102 - 508
XD3-2160-142	340 - 501
XD3-2200-142	290 - 506
XD9-0134-000	102 - 107
	102 - 108
XD9-0136-000	101 - 72
	220 - 19
	250 - 7
	290 - 21
	401 - 10
XF9-0350-000	290 - 22
XF9-0562-000	355 - 21
XF9-0563-000	290 - 23
XG9-0177-000	640 - 39
XG9-0237-000	161 - 64
XH9-0084-000	100 - 45
XZ9-0422-000	300 - 31

PART NUMBER	FIGURE & KEY NO.

COPYRIGHT © 1995 CANON INC.
CANON NP6012/6012F/6212 REV. 1-1 NOV. 1996 PRINTED IN JAPAN (IMPRIME AU JAPON)

D NUMERICAL INDEX
部品索引表

PART NUMBER	FIGURE & KEY NO.
WA1 - 5238 - 000	910 - D104
WA1 - 5423 - 000	930 - ZD101
WA1 - 5473 - 000	910 - D209
	910 - D210
WA1 - 5548 - 000	910 - D203
WA1 - 5557 - 000	910 - D211
WA1 - 5565 - 000	910 - D204
WA1 - 5662 - 000	910 - D418
	910 - D419
	910 - D420
	910 - D421
WA1 - 5667 - 000	930 - D102
	930 - D103
	930 - D108
	930 - D112
	930 - D113
	930 - D114
	930 - D115
	930 - D117
	930 - D128
	930 - D132
	930 - D133
	930 - D184
	930 - D185
	930 - D186
	930 - D188
	930 - D190
	930 - D193
	930 - D195
	930 - D199
	930 - D200
	930 - D201
	930 - D202
	930 - D203
	930 - D207
	930 - D208
WA2 - 0036 - 000	910 - Q405
WA2 - 0058 - 000	910 - Q122
WA2 - 0124 - 000	910 - Q107
	910 - Q202
	910 - Q212
	910 - Q303
	910 - Q307
	910 - Q403
	910 - Q406
	910 - Q408
	910 - Q411
	910 - Q416
	910 - Q951
	910 - Q952
	910 - Q954
	910 - Q955
WA2 - 0135 - 000	910 - Q118
	910 - Q304
WA2 - 0237 - 000	910 - Q115
	910 - Q207
	910 - Q417
	910 - Q419
WA2 - 0362 - 000	910 - Q103
	910 - Q119
	910 - Q209
WA2 - 0383 - 000	930 - Q133
WA2 - 0772 - 000	910 - Q105
	910 - Q106
	910 - Q110
	910 - Q409
	910 - Q412
	910 - Q413
	910 - Q414
WA2 - 0775 - 000	910 - Q104
WA2 - 0796 - 000	910 - Q306
WA2 - 0834 - 000	935 - Q 9
	935 - Q 10
	935 - Q 11
WA2 - 0863 - 000	930 - Q110
WA2 - 1348 - 000	910 - Q101
WA2 - 1414 - 000	910 - Q410
WA2 - 1506 - 000	910 - Q402
WA2 - 5016 - 000	910 - Q407
WA2 - 5457 - 000	910 - Q116
	910 - Q117
WA2 - 5503 - 000	910 - Q301
WA2 - 5505 - 000	910 - Q205
WA2 - 5511 - 000	910 - Q305
	910 - Q404

PART NUMBER	FIGURE & KEY NO.
WA2 - 5633 - 000	910 - Q120
WA2 - 5682 - 000	910 - Q415
WA2 - 5863 - 000	910 - Q116
	910 - Q117
WA2 - 5873 - 000	930 - Q103
	930 - Q132
	930 - Q137
	930 - Q147
	930 - Q150
	930 - Q151
	930 - Q165
	930 - Q167
	930 - Q173
	930 - Q174
	930 - Q176
	930 - Q184
WA2 - 5874 - 000	930 - Q102
	930 - Q104
	930 - Q111
	930 - Q112
	930 - Q113
	930 - Q114
	930 - Q115
	930 - Q116
	930 - Q117
	930 - Q118
	930 - Q119
	930 - Q120
	930 - Q131
	930 - Q134
	930 - Q135
	930 - Q136
	930 - Q138
	930 - Q139
	930 - Q140
	930 - Q146
	930 - Q148
	930 - Q149
	930 - Q152
	930 - Q155
	930 - Q157
	930 - Q158
	930 - Q160
	930 - Q161
	930 - Q162
	930 - Q182
	930 - Q183
WA2 - 5880 - 000	910 - Q401
WA2 - 5884 - 000	930 - Q121
	930 - Q122
	930 - Q123
	930 - Q124
WA3 - 2025 - 000	910 - Q418
WA3 - 4209 - 000	930 - Q153
WA3 - 4465 - 000	935 - Q 6
WA3 - 8310 - 000	935 - Q 1
WA4 - 0233 - 000	910 - Q203
	910 - Q206
	910 - Q953
WA4 - 0324 - 000	910 - Q121
WA4 - 0539 - 000	910 - Q208
WA4 - 0590 - 000	930 - Q107
WA4 - 0928 - 000	935 - Q 3
WA4 - 1269 - 000	935 - Q 5
WA4 - 5094 - 000	910 - Q102
WA4 - 5171 - 000	910 - Q502
WA4 - 5180 - 000	970 - Q401
WA4 - 5214 - 000	930 - Q109
	935 - Q 4
WA4 - 5228 - 000	930 - Q106
WA4 - 5591 - 000	910 - Q201
WA4 - 5939 - 000	930 - Q108
WA4 - 5980 - 000	930 - Q105
WA4 - 6294 - 000	930 - Q179
WA4 - 6539 - 000	930 - Q186
WA5 - 0093 - 000	910 - Q111
WA5 - 0094 - 000	910 - Q111
WA5 - 5009 - 000	910 - Q108
WA5 - 5100 - 000	910 - Q114
WA5 - 5101 - 000	910 - Q108
WA9 - 0058 - 000	935 - Q 2
WC1 - 5037 - 000	910 - 8
WC2 - 5057 - 000	935 - PSW
WC2 - 5102 - 000	915 - SW301
	915 - SW302

PART NUMBER	FIGURE & KEY NO.
WC2 - 5102 - 000	915 - SW303
	915 - SW304
	915 - SW305
	915 - SW306
	915 - SW307
	915 - SW308
	915 SW309
WC4 - 5030 - 000	161 - 56
WC5 - 5115 - 000	935 - SW 2
WC8 - 0222 - 000	935 - SW 1
WD3 - 0040 - 000	935 - CB 1
WD9 - 5028 - 000	940 - 3
WE2 - 5032 - 000	935 - L 1
WE2 - 5153 - 000	910 - L201
WG1 - 5280 - 000	915 - LED301
	915 - LED302
	915 - LED303
	915 - LED304
	915 - LED305
	915 - LED306
	915 - LED308
	915 - LED310
	915 - LED311
	915 - LED312
WG1 - 5281 - 000	915 - LED307
	915 - LED313
	915 - LED314
	915 - LED316
	915 - LED317
WG3 - 0055 - 000	970 - PD401
	970 - PD402
WG8 - 5001 - 000	101 - 60
	101 - 61
	450 - 25
	810 - 14
WG8 - 5180 - 000	910 - Q109
WG8 - 5187 - 000	101 - 62
WG8 - 5199 - 000	910 - Q112
WG8 - 5206 - 000	161 - 57
	161 - 58
WK1 - 0082 - 000	930 - BAT 1
WK2 - 0516 - 000	935 - X 1
WK2 - 5429 - 000	910 - X501
WK3 - 5040 - 000	930 - NF001
WS3 - 0437 - 000	B - J105
	B - J107
	B - J206
	B - J401
WS3 - 0885 - 000	B - J101
WS3 - 5160 - 000	B - J 1
	B - J202
	B - J211
WS3 - 5174 - 000	B - J 2
	B - J201
	B - J207
	B - J501
WS3 - 5175 - 000	B - J201
	B - J207
	B - J501
WS3 - 5352 - 000	B - J 2
WS3 - 5353 - 000	B - J 2
WS3 - 5354 - 000	B - J 2
WS3 - 5355 - 000	910 - J201
	910 - J207
	940 - J501
WS3 - 5358 - 000	B - J106
	B - J601
	B - J602
	B - J951
WS4 - 0181 - 000	B - J101
WS4 - 0218 - 000	B - J 16
WS6 - 5092 - 000	B - J 20
	B - J 21
WT1 - 0433 - 000	910 - J209
	910 - J215
	910 - J212
	910 - J213
WT2 - 0204 - 010	161 - 59
WT2 - 0317 - 010	161 - 60
WT2 - 0494 - 000	102 - 101
WT2 - 0495 - 000	910 - 9
WT2 - 5026 - 000	101 - 63
	102 - 102
WT2 - 5035 - 000	101 - 64
WT2 - 5056 - 000	910 - 10

COPYRIGHT © 1995 CANON INC.
CANON NP6012/6012F/6212 REV.1 OCT. 1995 PRINTED IN JAPAN [IMPRIME AU JAPON]

D NUMERICAL INDEX
部品索引表

PART NUMBER	FIGURE & KEY NO.
WT2-5306-000	910-11
WT2-5335-000	102-103
WT2-5389-000	910-12
WT3-5021-000	102-104
X62-8249-000	910-SQ101
	910-SQ102
X65-5032-000	915-D301
	915-D302
	915-D303
	915-D304
XA9-0187-000	101-65
	101-66
	220-17
XA9-0632-000	161-61
	161-62
XA9-0633-000	161-63
	355-20
XA9-0650-000	450-26
XA9-0760-000	100-44
	101-67
	220-18
	230-21
XA9-0762-000	100-45
XA9-0763-000	102-105
XA9-0794-000	101-68
XA9-0819-000	101-69
XB1-2260-309	290-501
XB1-2300-407	300-501
XB1-2300-409	102-501
	220-501
	640-501
	810-501
XB1-2300-607	530-501
	910-501
XB1-2300-609	101-501
	230-501
	400-501
	402-501
	530-502
XB1-2300-809	102-502
	402-502
XB1-2400-609	161-501
	230-502
	290-502
XB1-2402-009	290-503
XB2-6300-607	810-502
XB2-7300-607	101-502
	102-503
XB2-7400-607	290-504
XB2-8300-607	400-502
XB2-8300-807	910-502
XB4-7200-609	100-501
XB4-7300-509	300-502
XB4-7300-609	100-502
	101-503
	101-504
	530-503
XB4-7300-809	101-505
	101-506
	101-507
	102-504
	400-503
	401-501
	402-503
	530-504
	640-502
XB4-7301-009	161-502
	401-502
	530-505
	640-503
XB4-7400-609	102-505
	355-501
XB4-7400-809	161-503
	162-501
XB4-7401-009	100-503
XB4-7401-209	161-504
XB5-2301-209	161-505
XB6-2300-808	400-504
	401-503
	402-504
XB6-7300-609	102-506
XB7-2200-409	401-504
XD1-2100-307	530-506
XD2-1100-322	161-506
	355-502
XD2-1100-402	102-507
XD2-1100-502	290-505
	355-503
	640-504
	811-501
XD2-1100-642	161-507
	355-504
XD2-2100-802	161-508
XD2-2300-202	810-503
XD2-2300-502	101-508
	161-509
XD3-2160-062	102-508
XD3-2160-142	340-501
XD3-2200-142	290-506
XD9-0134-000	102-506
	102-507
XD9-0136-000	101-70
	220-19
	250-7
	290-21
	401-10
XF9-0350-000	290-22
XF9-0562-000	355-21
XF9-0563-000	290-23
XG9-0177-000	640-39
XG9-0237-000	161-64
XH9-0084-000	100-46

COPYRIGHT © 1995 CANON INC.
CANON NP6012/6012F/6212 REV.0 OCT. 1995 PRINTED IN JAPAN (IMPRIME AU JAPON)

NP6012

SERVICE HANDBOOK

REVISION 0 MAY 1995

Canon
FY8-23AG-000

COPYRIGHT 1995 CANON INC.
CANON NP6012 REV.0 MAY 1995 PRINTED IN JAPAN

CHAPTER 1 MAINTENANCE AND SERVICING

I. PERIODICALLY REPLACED PARTS

The copier does not have a part to be replaced on a periodical basis.

II. DURABLES AND CONSUMABLES

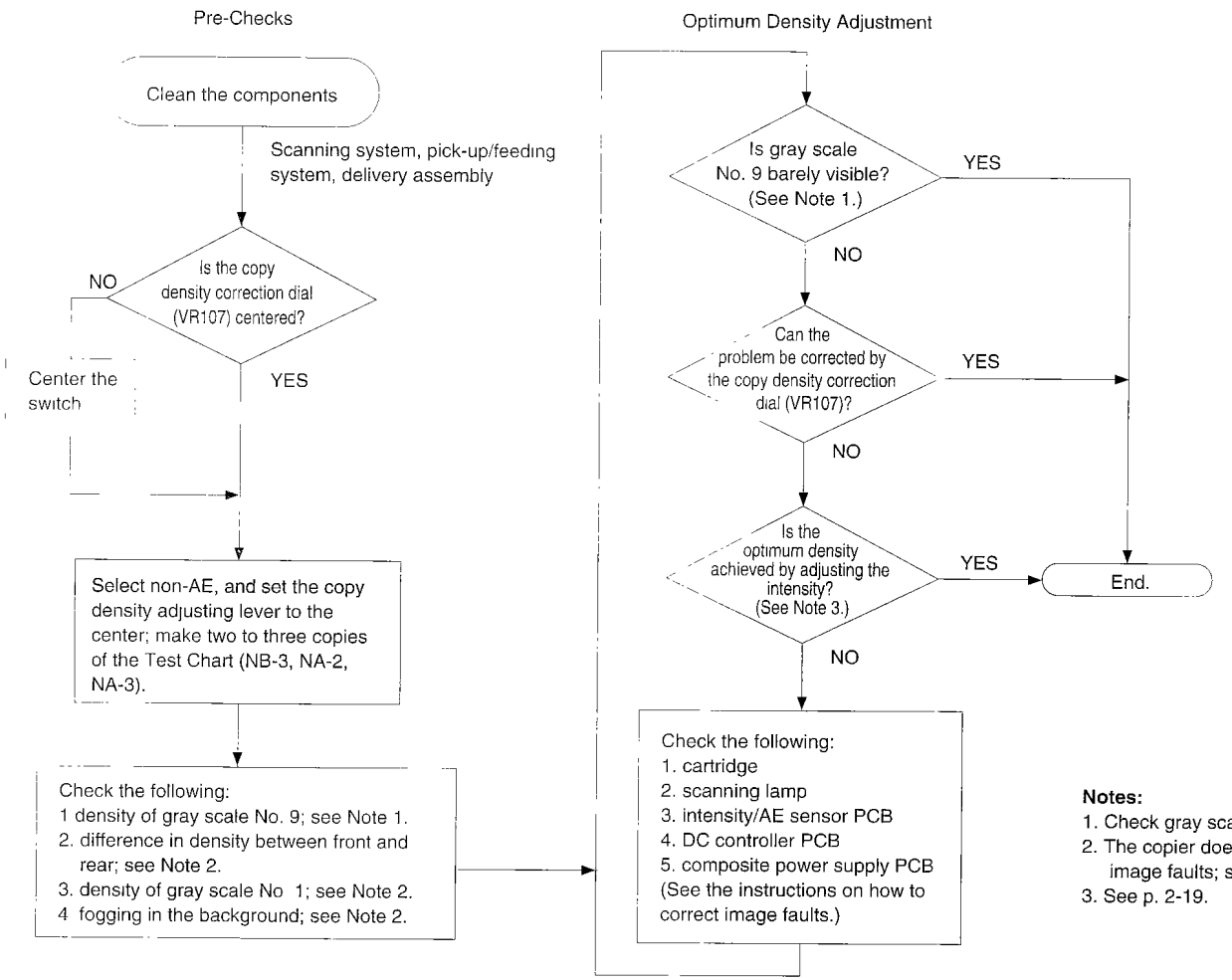
The copier does not have a part classified as a durable or consumable part

III. SCHEDULED SERVICING

The copier has no part that must be serviced on a periodical basis.

IV. MAINTENANCE AND INSPECTION

A. Image Adjustment Basic Procedure


Pre-Checks
Clean the components
Scanning system, pick-up/feeding system, delivery assembly
Is the copy density correction dial (VR107) centered?
NO
YES
Center the switch
Select non-AE, and set the copy density adjusting lever to the center; make two to three copies of the Test Chart (NB-3, NA-2, NA-3).
Check the following:
1 density of gray scale No. 9; see Note 1.
2. difference in density between front and rear; see Note 2.
3. density of gray scale No 1; see Note 2.
4 fogging in the background; see Note 2.
Optimum Density Adjustment
Is gray scale No. 9 barely visible? (See Note 1.)
YES
NO
Can the problem be corrected by the copy density correction dial (VR107)?
YES
NO
Is the optimum density achieved by adjusting the intensity? (See Note 3.)
YES
End.
NO
Check the following:
1. cartridge
2. scanning lamp
3. intensity/AE sensor PCB
4. DC controller PCB
5. composite power supply PCB
(See the instructions on how to correct image faults.)

Notes:
1. Check gray scale No. 10 if you are using NB-3.
2. The copier does not have an adjustment mechanism that corrects various image faults; see the steps given for correcting image faults.
3. See p. 2-19.

V. SCHEDULED MAINTENANCE

Optical path

Part	Tools/solvents	Remarks
Lens	Blower brush	Cleaning.
Reflecting plate	Blower brush	Cleaning
No. 1/No. 6 mirror	Blower brush or alcohol and lint-free paper	Cleaning with a blower brush; if dirt cannot be removed, use alcohol and lint-free paper.
Scanning lamp	Moist cloth	Cleaning

Part	Tools/solvents	Remarks
Copyboard cover	Alcohol	Cleaning
Copyboard glass	Alcohol	Cleaning

Multifeeder assembly

Part	Tools/solvents	Remarks
Multifeeder pick-up roller	Moist cloth (well-wrung) or alcohol	Cleaning

Electrical unit

Part	Tools/solvents	Remarks
AE/intensity sensor	Blower brush	Cleaning.

Fixing assembly

Part	Tools/solvents	Remarks
Inlet guide	Solvent	Cleaning.

Cassette pick-up assembly

Part	Tools/solvents	Remarks
Cassette pick-up roller	Moist cloth (well-wrung) or alcohol	Cleaning

Developing assembly

Part	Tools/solvents	Remarks
Developing roll	Alcohol	Cleaning.

Transfer guide assembly

Part	Tools/solvents	Remarks
Registration roller	Moist cloth	Cleaning.
Transfer guide	Moist cloth	Cleaning.

Drum unit Transfer charging roller

Part	Tools/solvents	Remarks
Photosensitive drum	Toner	Do not use solvent; in principle, do not touch or clean. Never expose to light.
Drum cover shutter	Moist cloth (well-wrung)	Falling toner may soil images; be sure to clean.
Transfer charging roller	Lint-free paper	Cleaning; do not use water or solvent. Do not touch, and take care not to soil with solvent and oil.

Static eliminator

Part	Tools/solvents	Remarks
Static eliminator	Brush (attached to copyboard cover)	Cleaning.

Feeding assembly

Part	Tools/solvents	Remarks
Feeding belt	Moist cloth	Cleaning

CHAPTER 2 STANDARDS AND ADJUSTMENTS

I. MECHANICAL

1. Leading Edge Non-Image Width

Make sure that the leading edge non-image width is 2.0 ±1.5 mm when the Test Chart is copied.

Caution:
You must adjust the image leading edge margin whenever you have made this adjustment.

Figure 2-1

Making Adjustments

1) Select '31' in service mode; then, using the +/- key, change the setting indicated on the ratio/count indicator, and press the AE key.
   - The settings may be between 0 and 99.
   - The default is 32.
   Relationship between the Setting and the Image Leading Edge Non-Image Width

Relationship between the Setting and the Image Leading Edge Non-Image Width

Setting	Image leading edge non-image width
High	Increases
Low	Decreases

Table 2-1

2. Image Leading Edge Margin (registration ON timing)

Make sure that the leading edge margin is between 1.0 and 4.0 mm when the Test Chart is copied.

Caution:
You must adjust the leading edge non-image width before making this adjustment.

Figure 2-2

Making Adjustments

1) Select '30' in service mode; then, using the +/- key, change the setting indicated on the ratio/count indicator, and press the AE key.
   - The setting may be between 0 and 99.
   - The default is 14.

Relationship between the Setting and the Image Leading Edge Margin

Setting	Image leading edge margin
High	Decreases
Low	Increases

Table 2-2

3. Adjusting the Mirror Position (optical length of No. 1 and No. 2 mirrors)

Adjust the mirror position whenever you have replaced the scanner drive cable.

To adjust the position of the mirror, change the position of the cable retaining plate of the No. 1 mirror mount.

Reference:

1. You may have to make this adjustment if the total copy count is high.
2. If the distance between the No. 1 and No. 2 mirrors is not correct, the horizontal reproduction ratio may become wrong or the copies may show poor sharpness and become out of focus.

1) Obtain a mirror positioning tool (FY9-3009), and set it to screw B.

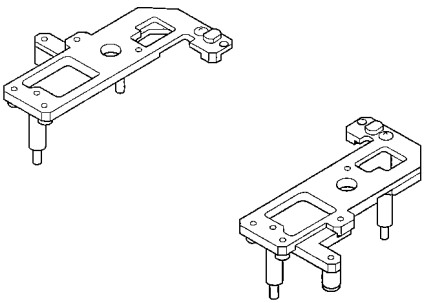


Figure 2-3

2) Remove the external covers and copyboard glass.

3) Loosen the cable retaining plate fixing screw found at both the rear and front of the No. 1 mirror mount.

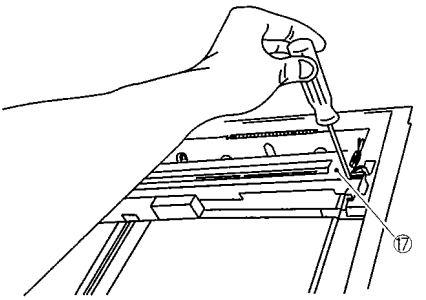


Figure 2-4

4) Move the cable drive pulley ⑤ so that the shaft of the mirror positioning tool ⑱ fits into the positioning hole in the No. 2/3 mirror mount ⑲.

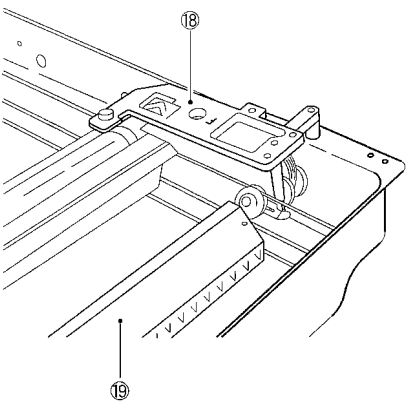


Figure 2-5 (front)

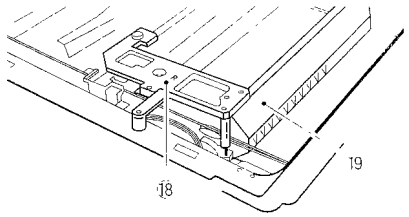


Figure 2-6 (rear)

5) Arrange so that the shaft of the mirror positioning tool 18 fits into the hole of the No. 1 mirror mount 17.

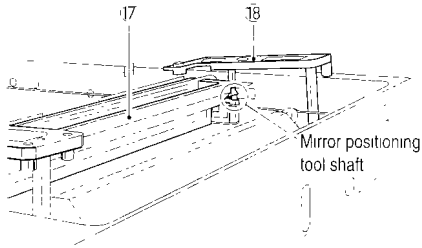


Figure 2-7 (front)

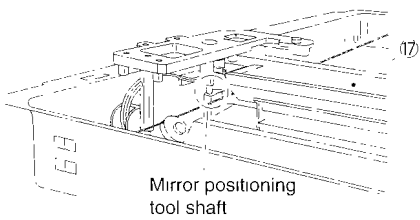


Figure 2-8 (rear)

4. **Checking the Cassette Spring Pressure**

Pick-up faults can occur if the pressure of the cassette spring used to hold up the cassette holding tray is not correct.

If pick-up faults occur, check the pressure of the cassette spring using a spring gauge (CK-0054); if the reading does not meet the standard, replace it.

Standard: 1100 to 1300 g,

Taking Measurements

As shown, hook the spring gauge at the center of the cassette spring; make sure that the reading is 1100 to 1300 g when the holding plate is 10.5 mm away from the bottom of the cassette.

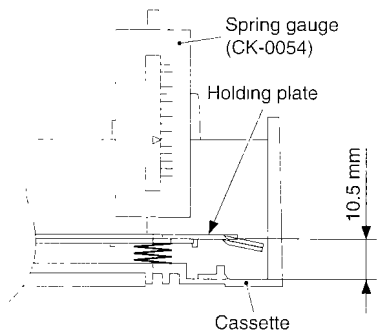


Figure 2-9

5.1 Scanner Drive Cable Route

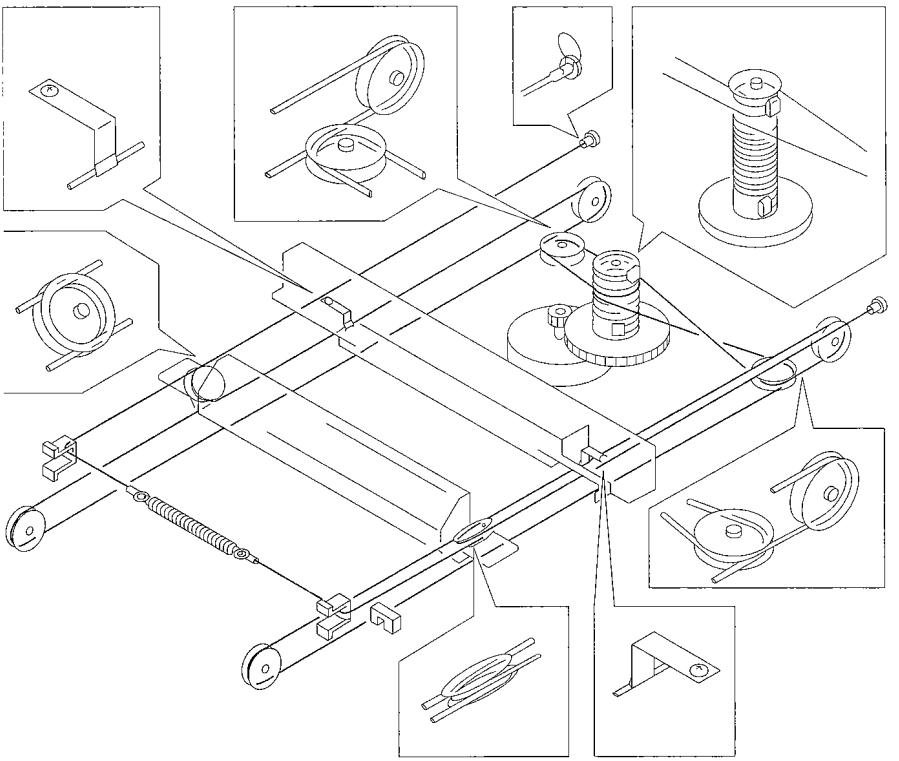


Figure 2-10

5.2 Routing the Cable

[1] Preparation

Prepare the following tools.

- Mirror positioning tool (FY9-3009)
- Wire clip (FY9-3017)
- Adhesive tape

1) Set the mirror positioning tool.

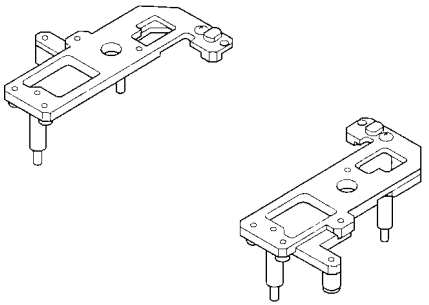


Figure 2-11

2) Prepare about five sheets of adhesive tape which are cut in approximately 20mm x 50mm size.
3) Remove the copyboard cover.
4) Remove the upper cover.
5) Remove the copyboard glass.
6) Remove the sensor cable ① and three screws ② and remove the cross member ③.

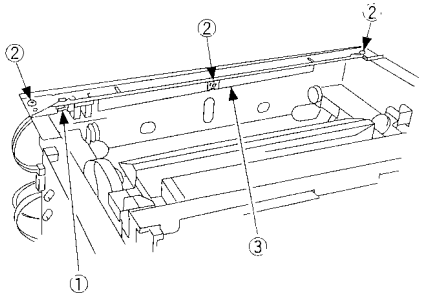


Figure 2-12

7) Remove the four screws ④ and the lens cover ⑤.

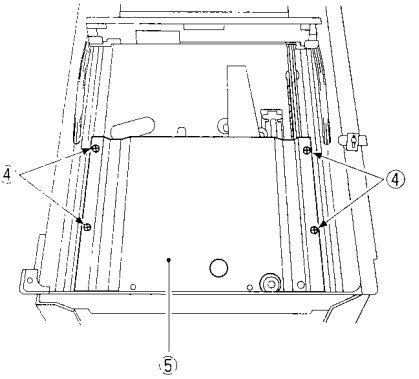


Figure 2-13

[2] Attach the backing wire.

1) Wind the backing wire (silver) ② on the wire drive pulley ① 7.5 times so that the longer side comes to the top and secure it using wire the clip ③.

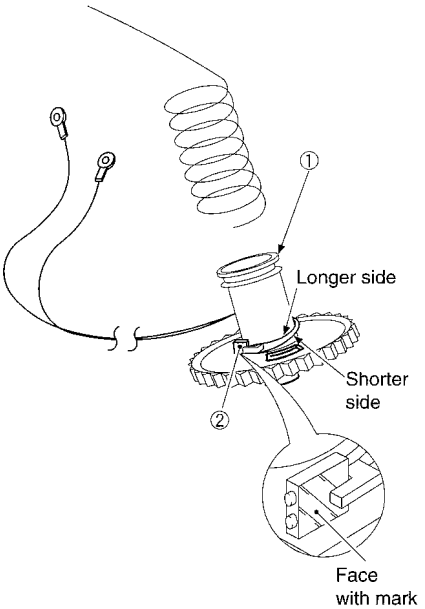


Figure 2-14

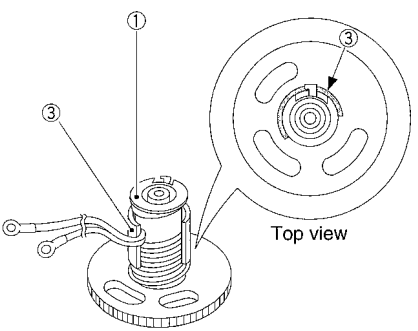


Figure 2-15

2) Place the wire drive pulley ① on the shaft ④ and secure it using an E ring ⑤. When placing the wire drive pulley on the shaft, orient the hook section to the front side.

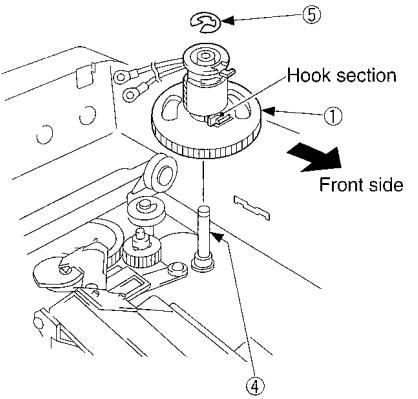


Figure 2-16

3) Hook the shorter side of the wire ⑥ on the pulley ⑦ on the right rear side.

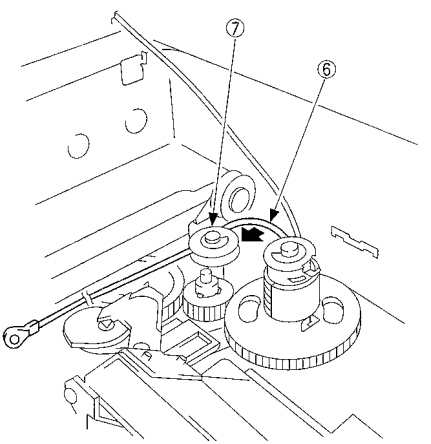


Figure 2-17

4) Put the shorter side of the wire ⑥ through under mirror 1 mount ⑧ and the mirror 2 and 3 mount ⑨, then hook it on the pulley ⑩ at the left rear side and pulley ⑪ of the mirror 2 and 3 mount.

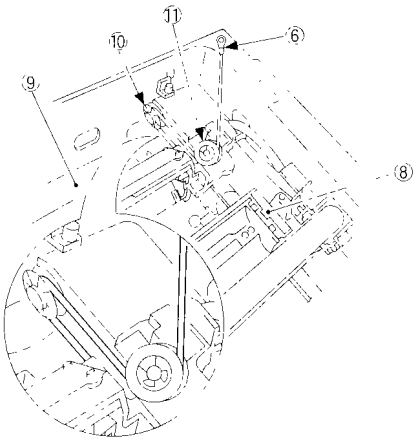


Figure 2-18

5) After hooking the shorter side of the wire ⑥ on the wire hook ⑫, use adhesive tape ⑬ to secure the rear end of the wire on the left side face. Arrange the securing position of the wire so that, as shown in the Figure below, the rear end of the wire comes to the position against the hole on the left side face.

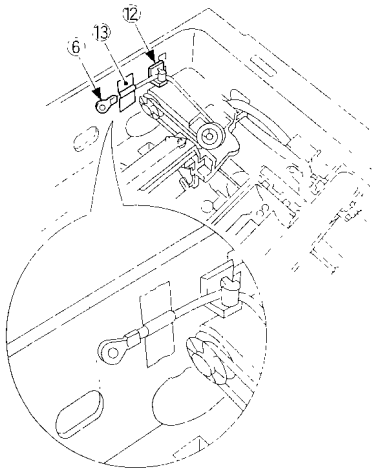


Figure 2-19

6) Hook the longer side of the wire ⑭ on the pulley ⑮ at the right hand front side as shown in the Figure below by routing it along the wire drive pulley ①.

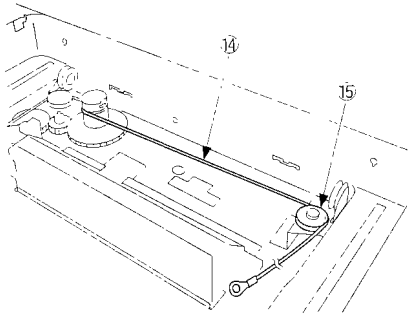


Figure 2-20

7) Put the longer side of the wire ⑭ throught under mirror 1 mount ⑧ and mirror 2 and 3 mount ⑨, then hook it on the pulley ⑯ at the left hand front side and pulley ⑰ of mirror 2 and 3 mount.

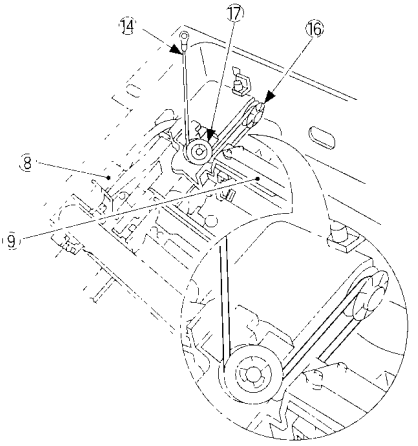


Figure 2-21

8) After hooking the longer side of the wire ⑭ on the wire hook ⑱, use adhesive tape ⑲ to secure the rear end of the wire on the left side face. Arrange the securing position of the wire so that the rear end of the wire comes to the position as shown in the Figure below against the hole on the left side face.

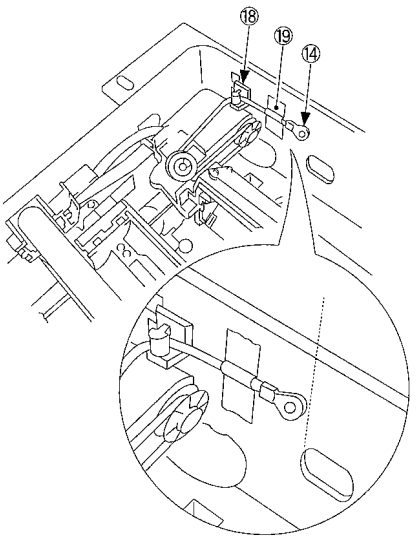


Figure 2-22

[3] Attaching forward wire

1) Wind the forward wire (black) ② on the upper side hook ① wire drive pulley 1.5 times so that the longer side comes to the top, then, secure the shorter side of the wire ③ as shown in the figure below using adhesive tape ④.

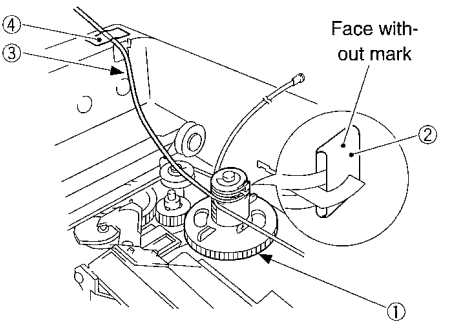


Figure 2-23

2) Route the longer side of wire ⑤ along the wire drive pulley and hook it on the pulley ⑥ at the right hand front side as shown in the figure below.

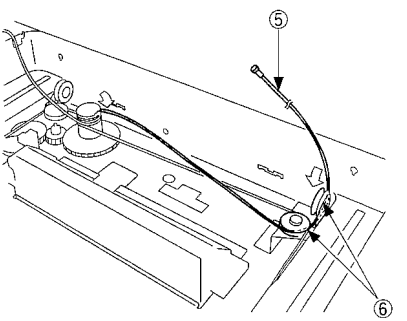


Figure 2-24

3) Furthermore, put the longer side of wire ⑤ through under mirror 1 mount ⑦ and hook it on the pulley ⑧ of mirror 2 and 3 mount as shown in the figure below.

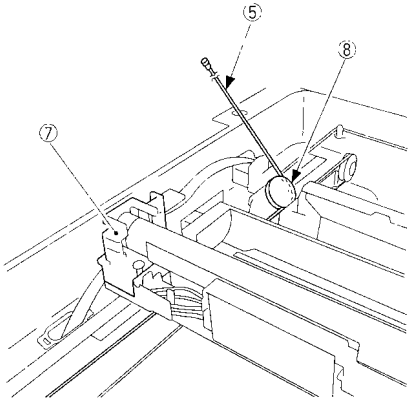


Figure 2-25

4) After hooking the longer side of wire ⑤ on the pulley ⑧ of mirror 2 and 3 mount, route it through between mirror 1 mount ⑦ and scanning lamp ⑨.

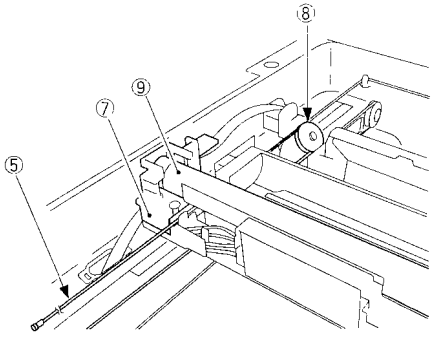


Figure 2-26

5) Fish the rear end of the longer side of wire ⑤ through the hole ⑪ at the right side face.

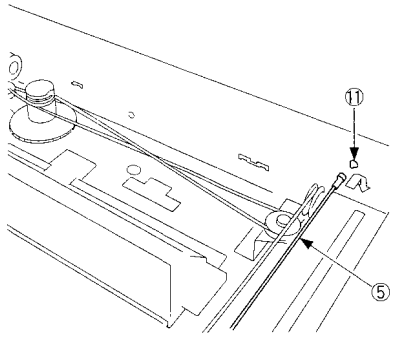


Figure 2-27

6) Remove the fixing for the shorter side of the wire ③ and hook the wire on the pulley ⑫ at the right rear side as shown in the figure below.

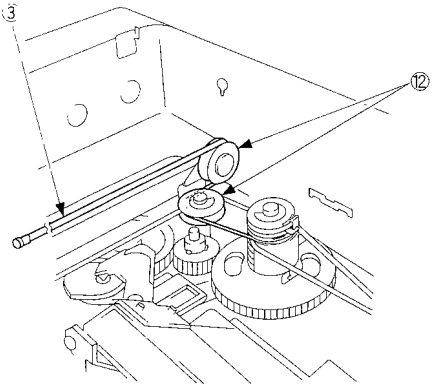


Figure 2-28

7) Put the shorter side of the wire ③ under mirror 1 mount ⑥, then hook it on the pulley ⑫ of mirror 2 and 3 mount as shown in the figure below.

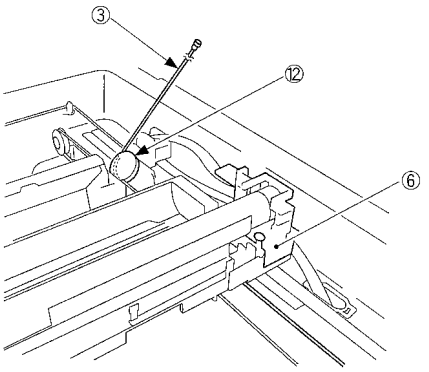


Figure 2-29

8) After hooking the shorter side of the wire ③ on the pulley ⑫ of mirror 2 and 3 mount, fish it between mirror 1 mount ⑦ and the scanning lamp ⑨.

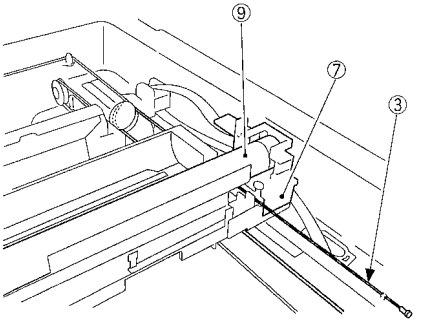


Figure 2-30

9) Fish the rear end of the shorter side of the wire ③ through the hole ⑬ at the right side face.

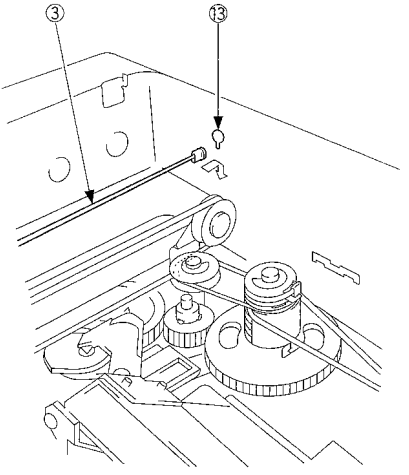


Figure 2-31

10) Remove the fixing for the shorter side ③ and longer side ⑤ of the backing wire and connect both using the spring ⑭.

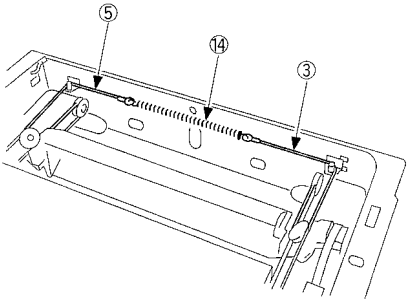


Figure 2-32

11) Remove the pulley clip ⑮ attached to the wire driver pulley ①.

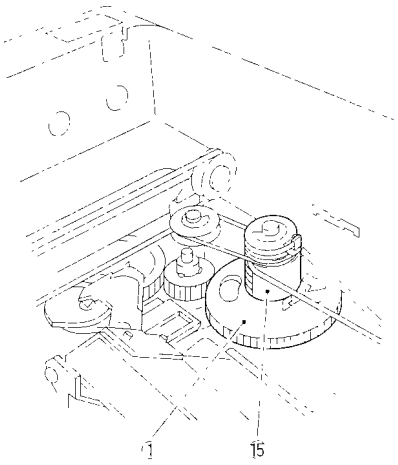


Figure 2-33

[4] Positioning of mirror 1 mount

1) Temporary secure the rear side and front side of mirror 1 mount ① on the fitting ② of the backing wire.

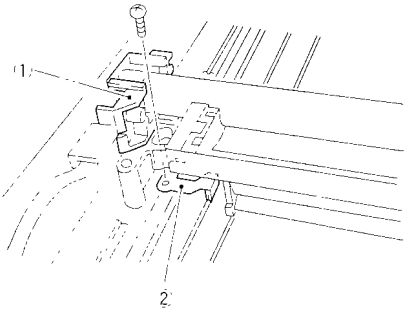


Figure 2-34 (Rear side)

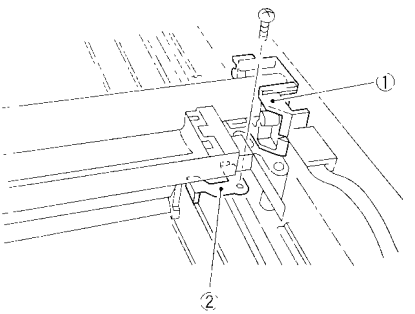


Figure 2-35 (Front side)

2) Rotate the wire drive pulley ④ so that the three pins ③ of the mirror positioning tool for the rear and front side become accommodated in the position shown in the figure below.

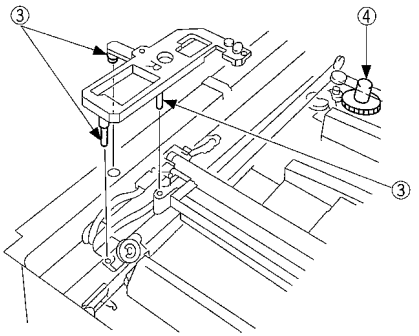


Figure 2-36 (Rear side)

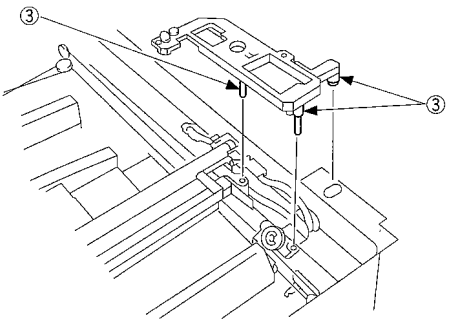


Figure 2-37 (Front side)

3) Tighten the positioning screw at the rear side and front side of mirror 1 mount ①.

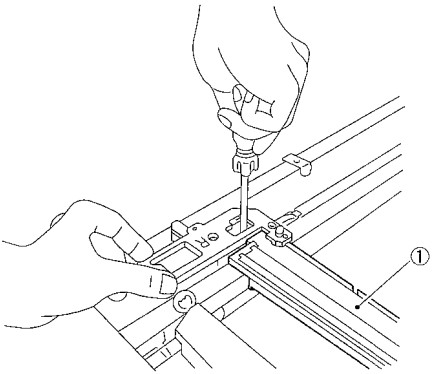


Figure 2-38 (Rear side)

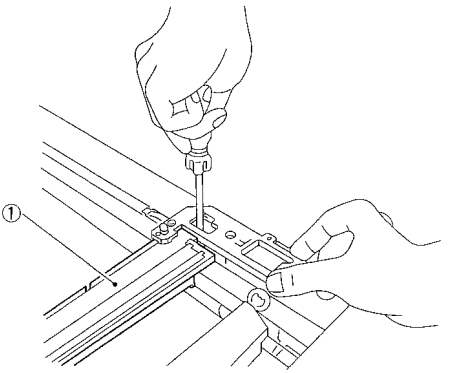


Figure 2-39 (Front side)

6. Installing the Scanning Lamp

Install the scanning lamp so that the light-emitting portion (transparent glass) is on the left when viewed from the front of the copier.

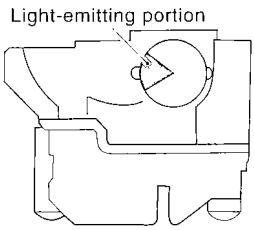


Figure 2-40 (front view)

Caution:

You must always adjust the intensity of the scanning lamp (p. 2-19) and execute AE adjustment whenever you have replaced the scanning lamp.

1) Remove the two screws ①, and remove the multifeeder unit ②.

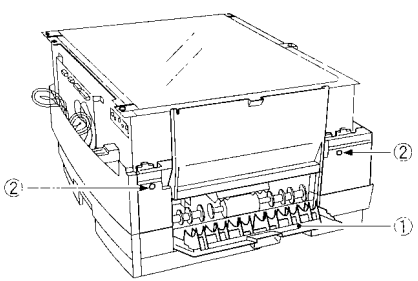


Figure 2-41

2) Turn the flywheel ③ of the scanner motor, and move the No. 1 mirror mount ④ so that it is nearly at the center.

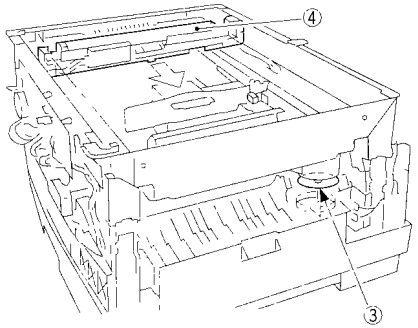


Figure 2-42

3) Install the scanning lamp ⑤ with its manufacturer's marking ⑥ toward the front. Then, make sure that the contacts of the lamp are in firm contact with the contacts of the No. 1 mirror mount.

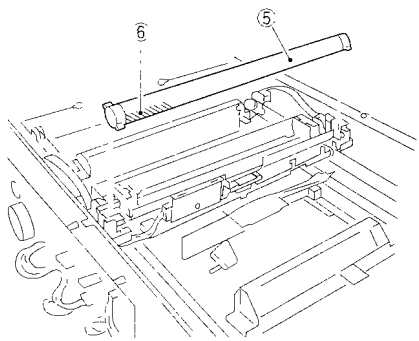


Figure 2-43

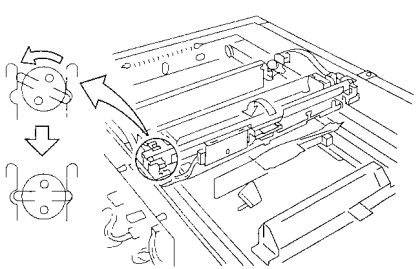


Figure 2-44

4) After installing the scanning lamp, push the four corners of the No. 1 mirror mount ④ lightly to make sure that the slider is in contact.

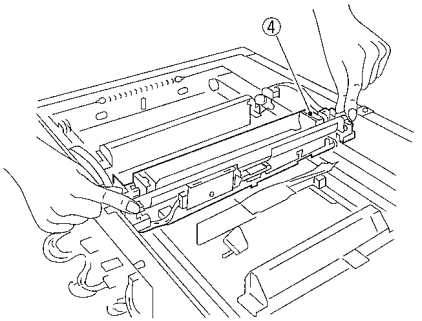


Figure 2-45

5) If the slider is not in firm contact, try the steps to install the scanning lamp once again.

7. Correcting the Displacement of the Fixing Film

Perform this adjustment if error code 'E007' is indicated and it will not disappear after executing fixing film displacement correction mode.

1) Open the copier's top unit, and remove the two screws ①; then, remove the upper front cover ②.

Caution:
The cable for the control panel is connected to the front upper cover; do not pull on it.

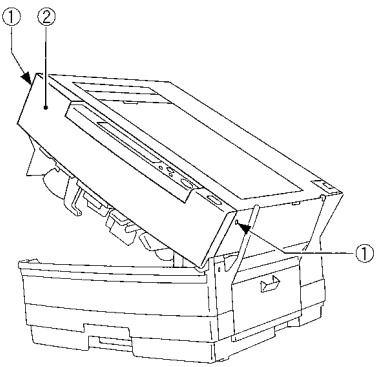


Figure 2-46

2) Find in which direction the fixing film has become displaced (front or rear).

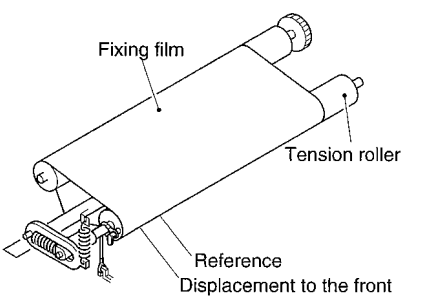


Figure 2-47 (displacement to front)

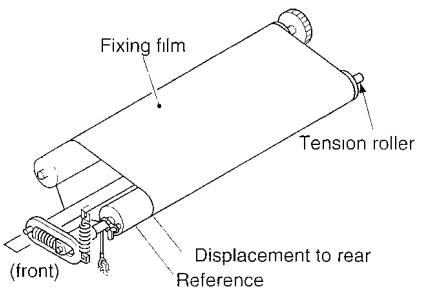


Figure 2-48 (displacement to rear)

3) Put a marking on the fixing assembly front side plate to indicate the standard position of the tension roller. (±2mm from center)

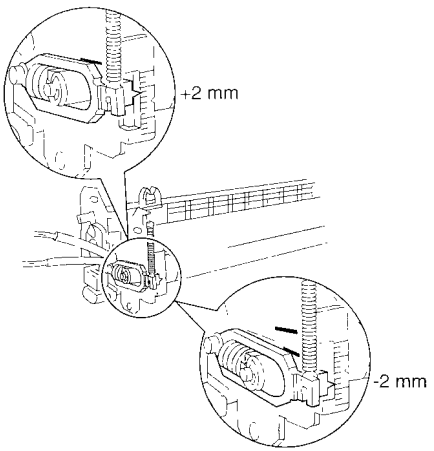


Figure 2-49

4) Loosen the fixing screw for the adjusting spacer, pull and turn the spacer 1 to 2 notches to make up for the displacement.

Displacement	Rotation
Front	Clockwise (to move the fixing film to the rear)
Rear	Counterclockwise (to move the fixing film toward the front)

Table 2-3

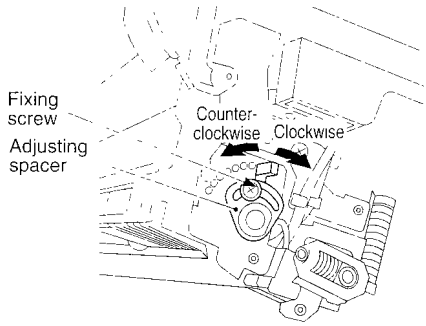


Figure 2-50

5) Close the copier's top unit and turn on the power switch, and short jumpers JP3 and JP4 on the DC controller PCB with a screwdriver.
   - The ratio/count indicator on the control panel will indicate 'F'.

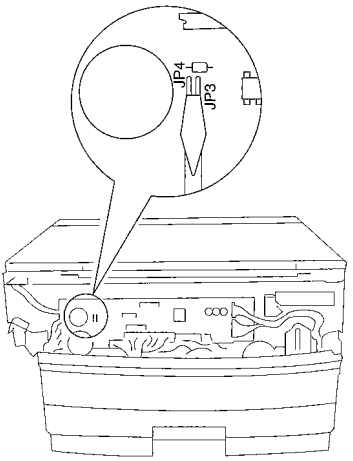


Figure 2-51

6) Stop shorting the jumpers; then, using the +/- key, bring out '40' on the count/ratio indicator, and press the Copy Start key.
   - The scanning lamp should turn on, and the main motor will start to rotate.
7) After about 5 min, check that the swing arm is at the marking you put in step 3) while the main motor is rotating.

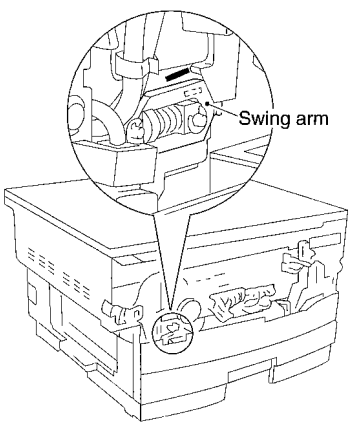


Figure 2-52

8) If the swing arm is not positioned within the marking, press the Clear/Stop key to stop the ongoing operation; then, loosen the fixing screw of the adjusting roll, and pull and turn the adjusting roll for 1 to 2 increments to suit the movement of the swing arm.

Swing direction of the swing arm	Rotation of the adjusting roll
Farther up than standard	Counterclockwise (moving down the swing arm)
Farther down than standard	Clockwise (moving up the swing arm)

Table 2-4

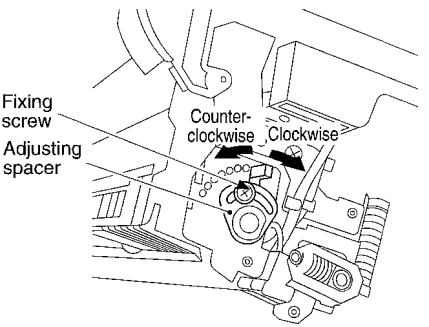


Figure 2-53

9) After making the adjustment, tighten the adjusting roll fixing screw to fix the roll in position.

10) Turn off the power switch, and measure the position of the fixing film from the front side plate of the fixing assembly.
    • The standard is 13 to 17 mm.
    If the measurement is outside the standard, replace the upper fixing unit.

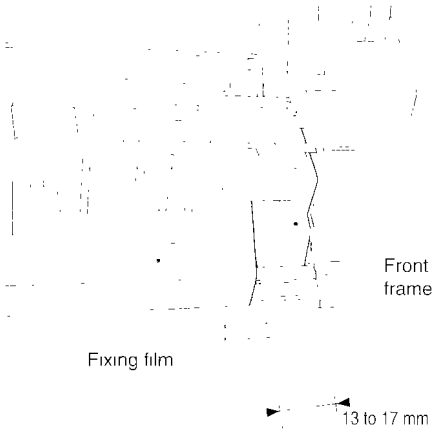


Figure 2-54

II. ELECTRICAL SYSTEM

1. Actions to Take After Replacement

Part	Work	Remarks
Scanning lamp	1. Adjust the intensity of the scanning lamp. 2. Execute AE adjustment.	
Intensity/AE sensor PCB	1. Adjust the intensity of the scanning lamp. 2. Execute AE adjustment	
Composite power supply PCB	1. Adjust the intensity of the scanning lamp. 2. Execute AE adjustment. 3. Execute measurement voltage correction for APVC (PW_OFST). 4. Execute measurement current correction for APVC (IP_ADJ).	
Pre-exposure lamp	1. Adjust the pre-exposure lamp output. (PREX_LP)	
DC controller PCB	1 Adjust the intensity of the scanning lamp. 2. Execute AE adjustment. 3. Adjust the image leading edge non-image width (LE_BLANK). 4. Adjust the image leading edge margin (REGST). 5. Execute primary charge output voltage correction (PRIMARY).* 6. Execute APVC measurement current correction (IP_OFST).* 7. Execute measurement voltage correction for APVC (PW_OFST). 8. Execute measurement current correction for APVC (IP_ADJ). 9. Execute ratio fine adjustment (LENS_ADJ). 10. Execute pre-exposure lamp output adjustment (PREX_LP).	*: Only if the model is not equipped with the automatic indication of drum cartridge replacement time.
Drum unit	1. Execute primary corona output voltage correction (PRIMARY). 2. Execute APVC measurement current correction (IP_OFST).	Only if the model is not equipped with the automatic indication of drum cartridge replacement time.

Table 2-5

2. Adjusting the Intensity of the Scanning Lamp

Adjust the intensity of the scanning lamp whenever you have replaced any of the following parts:

- DC controller PCB
- composite power supply PCB
- AE/intensity sensor PCB
- scanning lamp

1) Set the density correction dial (VR107) to the center notch.

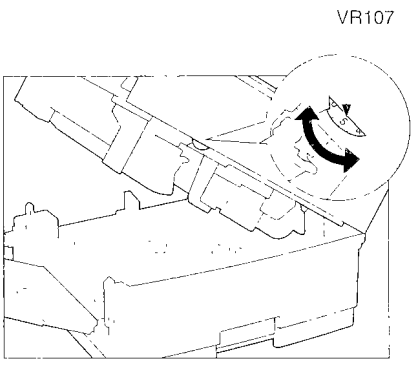


Figure 2-55

2) Turn off the AE mechanism, and set the copy density adjusting lever to the center notch.
3) Place the Test Chart (NB-3, NA-2, NA-3) on the copyboard, and make copies.
4) Turn VR101 on the DC controller PCB fully counterclockwise.
5) Turn VR101 on the DC controller PCB so that gray scale No. 9 is barely visible.

Caution:

Check gray scale No. 10 if you are using NB-3.
If you have turned VR101 fully clockwise, turn it fully counterclockwise before making adjustments once again.

Direction of VR101 and Copy Density

Direction	Density
Clockwise	Darker
Counterclockwise	Lighter

Table 2-6

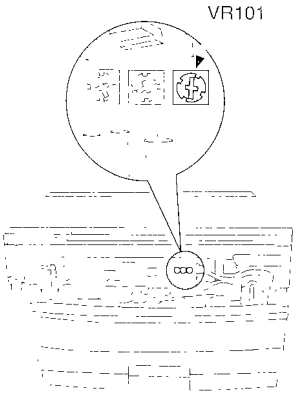


Figure 2-56

3. AE Adjustment

Execute AE adjustment whenever you have replaced any of the following parts:

- DC controller PCB
- Composite power supply PCB
- AE/intensity sensor PCB
- scanning lamp

Preparing for Adjustment

- Obtain a newspaper with even density; avoid one with photos and large titles.
- Obtain five sheets of copy paper.
- Make sure that the intensity of the scanning lamp has been properly adjusted.

1) Turn on the copier.
2) Short the two jumper wires (JP3, JP4) on the DC control PCB with a screwdriver.
   • The ratio/count indicator indicates 'F'.

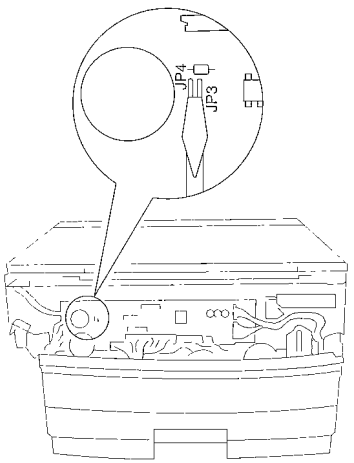


Figure 2-57

3) Stop shorting the jumpers; then, using the +/- key, bring up '40' on the ratio/count indicator, and press the Start key.
   • The scanning lamp will turn on, and the main motor (M1) will start to rotate.
4) Turn VR103 on the DC controller PCB fully clockwise.

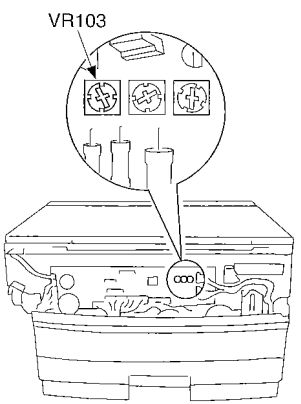


Figure 2-58

5) Place a newspaper on the copyboard, and close the copyboard cover.
6) Adjust VR102 so that the indication in the display is b2 through bc.

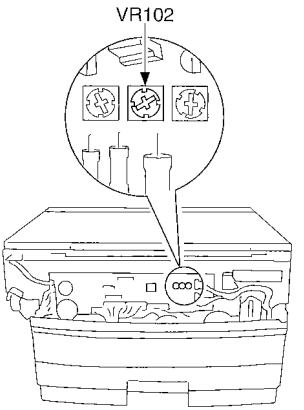


Figure 2-59

7) Remove the newspaper from the copyboard, and place a stack of five sheets of copy paper on the copyboard glass in its place; then, close the copyboard glass.
8) Adjust VR103 on the DC controller PCB so that the indication on the control panel is 53 through 5d.

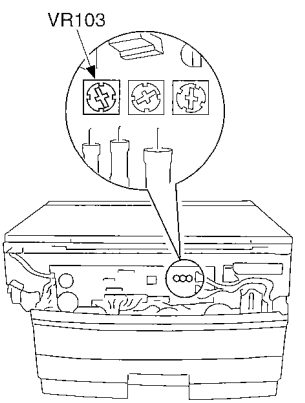


Figure 2-60

9) Make a copy, and make sure that it is free of fogging yet its text is dark enough.
   - If the copy is foggy or the text density is too light, repeat starting with step 1).
   - If no change is noted in the results after re-adjustment, make further adjustments using the density correction dial (VR107)

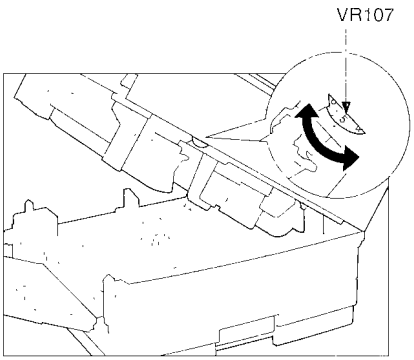


Figure 2-61

4. Leading Edge Non-Image Width

Make this adjustment whenever you have replaced the following:
- DC controller PCB

Make sure that the leading edge non-image width is 2.0 ±1.5 mm when the Test Chart is copied.

Caution:

You must adjust the image leading edge margin whenever you have made this adjustment.

Figure 2-62

Making Adjustments

1) Select '31' in service mode; then, using the +/- key, change the setting in the count/ratio indicator, and press the AE key.
   - The setting may be between 0 and 99.
   - The default is 32

Relationship between the Setting and the Image Leading Edge Non-Image Width

Setting	Image leading edge non-image width
High	Increases
Low	Decreases

Table 2-7

2) After making the adjustment, record the new setting on the service label attached behind the control panel.

5. **Image Leading Edge Margin (registration on timing)**

Make this adjustment whenever you have replaced the following:

- DC controller PCB

Make sure that the leading edge margin is 1.0 and 4.0 mm when the Test Chart is copied.

Caution:

You must make sure that the image leading edge non-image width is within the standard before making this adjustment.

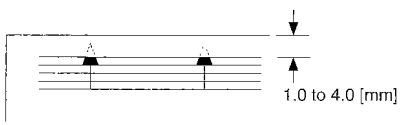


Figure 2-63

Making Adjustments

1) Select '30' in service mode; then, using the +/- key, change the setting in the count/ratio indicator, and press the AE key.
   - The setting may be between 0 and 99.
   - The default is 14.

Relationship between the Setting and the Image Leading Edge Non-Image Width

Setting	Image leading edge non-image width
High	Increases
Low	Decreases

Table 2-8

2) After making the adjustment, record the new setting on the service label attached behind the control panel.

6. **Primary Corona Output Voltage Correction (model without automatic indication of drum unit replacement time only)**

Execute this adjustment whenever you have replaced the following:

- DC controller PCB
- drum unit

Making Adjustments

- After Replacing the DC Controller PCB

1) Select '32' in service mode; then, using the +/- key, enter the setting 'PRIMARY' recorded on the service label attached behind the control panel in the count/ratio indicator, and press the AE key.
   - The setting may be between 0 and 30.

2) Turn off and then on the copier.

- After Replacing the Drum Unit

1) Select '32' in service mode; then, using the +/- key, enter the setting 'PRIMARY' recorded on the service label attached behind the control panel in the count/ratio indicator, and press the AE key.
   - The setting may be between 0 and 30.

2) Turn off and then on the copier.

3) After making the adjustment, record the new setting on the service label attached behind the control panel.

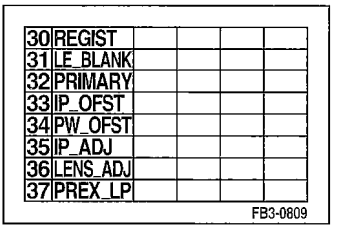


Figure 2-64

7. **APVC Measurement Current Correction (model without automatic indication of drum unit replacement time only)**

Execute this adjustment whenever you have replaced the following:

- DC controller PCB
- drum cartridge

Making Adjustments

- After Replacing the DC Controller PCB

1) Select '33' in service mode; then, using the +/- key, enter the setting 'IP_OFST' recorded on the service label attached behind the control panel in the count/ratio indicator, and press the AE key.
   - The setting may be between 0 and 99.

2) Turn off and then on the copier.

- After Replacing the Drum Cartridge

1) Select '33' in service mode; then, using the +/- key, enter the setting 'IP_OFST' recorded on the service label attached to the drum cartridge in the count/ratio indicator, and press the AE key.
   - The setting may be between 0 and 99.

2) Turn off and then on the copier.

3) After making the adjustment, record the new setting on the service label attached behind the control panel.

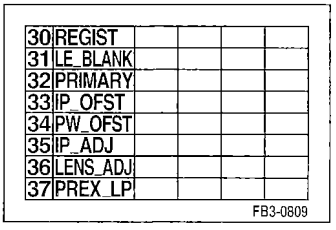


Figure 2-65

8. **Measurement Voltage Correction for APVC**

Make this adjustment whenever you have replaced the following:

- DC controller PCB
- composite power supply PCB

Making Adjustments

- After Replacing the DC Controller PCB

1) Select '34' in service mode; then, using the +/- key, enter the setting 'PW_OFST' recorded on the service label attached behind the control panel in the count/ratio indicator, and press the AE key.
   - The setting may be between 0 and 30.
   - The default is 15.

2) Turn off and then on the copier.

3) After making the adjustment, execute user mode 'U7'

- After Replacing the Composite Power Supply PCB

1) Select '34' in service mode; then, using the +/- key, enter the setting 'PW_OFST' recorded on the service label attached to the composite power supply PCB in the count/ratio indicator, and press the AE key.
   - The setting may be between 0 and 30.
   - The default is 15.

2) Turn off and then on the copier.

3) After making the adjustment, record the new setting on the service label attached behind the control panel.

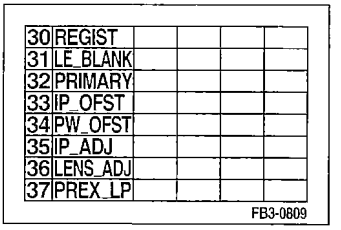


Figure 2-66

4) After making the adjustment, execute user mode 'U7'. (This step applies only if the machine is NOT equipped with the drum unit replacement time automatic indication function.)

9. Measurement Current Correction for APVC

Make this adjustment whenever you have replaced the following:

- DC controller PCB
- composite power supply PCB

Making Adjustments

- After Replacing the DC Controller PCB

1) Select '35' in service mode; then, using the +/- key, enter the setting 'IP_ADJ' recorded on the service label attached behind the control panel, and press the AE key.
   - The setting may be between 0 and 30.
   - The default is 15.

2) Turn off and then on the copier.

- After Replacing the Composite Power Supply PCB

1) Select '35' in service mode; then, using the +/- key, enter the setting 'IP_ADJ' recorded on the service label attached to the composite power supply PCB in the count/ratio indicator, and press the AE key.
   - The setting may be between 0 and 30.
   - The default is 15.

2) Turn off and then on the copier.

3) Record the new setting under 'IP_ADJ' on the service label.

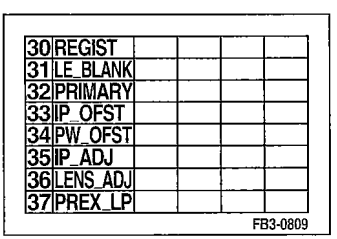


Figure 2-67

10. Reproduction Ratio Fine Adjustment

Make this adjustment whenever you have replaced the following:

- DC controller PCB

Making Adjustments

1) Select '36' in service mode; then, using the +/- key, enter the setting 'LENS_ADJ' recorded on the service label, and press the AE key.
   - The setting may be between 0 and 30.
   - The default is 15.

2) Turn off and then on the copier.

11. Pre-Exposure Lamp Output Adjustment

Make this adjustment whenever you have replaced the following:

- DC controller PCB
- Pre-exposure lamp

Making Adjustments

- After Replacing the DC Controller PCB

1) Select '37' in service mode; then, using the +/- key, enter the setting 'PREX_LP' recorded on the service label, and press the AE key.
   - The setting may be between 0 and 99.
   - The default is 50.
2) Turn off and then on the copier.
3) After making the adjustment, execute user mode 'U7'.

- After Replacing the Pre-exposure lamp

1) Select '37' in service mode; then, using the +/- key, enter the setting recorded on the label attached to the replaced pre-exposure lamp, and press the AE key.
   - The setting may be between 0 and 99.
   - The default is 50.
2) Turn off and then on the copier.

3) After making the adjustment, record the new setting on the service label attached behind the control panel.

30	REGIST				
31	LE_BLANK				
32	PRIMARY				
33	IP_OFST				
34	PW_OFST				
35	IP_ADJ				
36	LENS_ADJ				
37	PREX_LP				

FB3-0809

Figure 2-68

4) After making the adjustment, execute user mode 'U7'. (This step applies only if the machine is NOT equipped with the drum unit replacement time automatic indication function.)

12. Checking the Photointerrupters

1) Set the meter to the 12VDC range.
2) Connect the probe ① of the meter to GND the grounding terminal ② on the DC controller PCB.

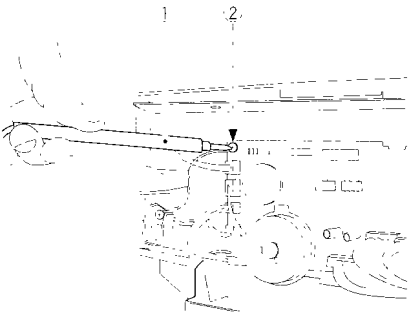


Figure 2-69

3) Make checks according to the instructions.

Reference:

The photointerrupters other than those indicated are connected in a matrix.

No.	PS1		PS2	
Name	Scanner home position sensor (SCHP)		Lens home position sensor (LHP)	
+ probe	J101-1		J109-10	
Normal if as described	Move the scanner by hand while in standby.		Move the lens mount by hand while in standby	
	When the scanner is at home position	When the scanner is not at home position	When the lens mount is not at home position	When the lens mount is at home position
Voltage measured by meter (approx.)	0 V	5 V	0 V	5 V

No.	PS4		Q751	
Name	Belt displacement sensor (FFD)		Pre-registration roller sensor (RPD)	
+ probe	J112-2		J108-1	
Normal if as described	Move the detecting lever by hand while in standby		Move the detecting lever by hand while in standby	
	When the light-blocking plate is over the sensor	When the light-blocking sensor is not over the sensor	When the detecting lever is not moved (paper present)	When the detecting lever is not moved (paper absent)
Voltage measured by meter (approx.)	0 V	5 V	5 V	0 V

Table 2-9

CHAPTER 3 IMAGE TROUBLESHOOTING

I. INITIAL CHECKS

1. Site Environment

a. The power outlet must provide the rated voltage.
b. The site must not be subject to high temperature/humidity (near water faucets, water boilers, humidifiers); avoid spots subject to low temperature, dust, or near sources of fire.
c. Avoid spots subject to ammonium gas.
d. Avoid spots exposed to the sun; otherwise, provide curtains.
e. Make sure the site is ventilated well.
f. Make sure that the floor supports the machine level.

Check the site against the above conditions to make sure it is fit for installation.

2. Checking the Originals

Find out whether the problem is caused by the machine or is due to the type of original used.

a In most cases, the copy density adjusting lever should be set to the middle notch.
b. Originals with a yellowish background can result in copies with poor contrast.
c. Such originals as diazo copies or ones with some degree of transparency can result in copies that can be mistaken for foggy copies.

Originals prepared in light pencil can result in copies that can be mistaken for light copies.

3. Copyboard Cover and Copyboard Glass

If the copyboard cover or copyboard glass is soiled, clean it with a solution of mild detergent of alcohol; if scratches are found, replace it.

4. Lens

If the lens is soiled, clean it with a cotton wad.

5. Transfer Charging Roller

a. Check the charging roller for dirt and scratches.

6. Feeding Assembly

Check the feeding assembly for dirt. If soiled, clean it with a moist cloth.

7. Copy Paper

a. Is the paper of a type recommended by Canon?
b. Is the paper moist? Try paper fresh out of its package.

8. Others

During the winter months, bringing in a machine from a cold to warm place for installation can lead to condensation inside the machine, bringing about various problems:

a. Condensation on the scanning system (glass, lens, mirror, reflecting plate) make the images too dark.
b. The chilled drum tends to have a high OPC electrical resistance, preventing good copy contrast.
c. Condensation in the pick-up/feeding assembly causes feeding problems.
d. Condensation on the lower roller of the manual pick-up assembly leads to a low friction, causing pick-up faults.

If condensation is noted, dry-wipe the part.

The cartridge may become subject to condensation if brought in from a cold to warm place; leave it alone in the room for about one to two hours and unpack it after it has sufficiently acclimatized to the room.

III. CORRECTING IMAGE FAULTS

1	**The copy is too light (halftone only).**
2	**The copy is too light (halftone and solid black).**
3	**The copy is too light (extremely, all image).**

Cause		Step	Checks	Results	Action
Lens, Reflecting plate, AE sensor, Intensity sensor		1	Clean the lens, reflecting plate, AE sensor, intensity sensor, and static eliminator. Is the problem corrected?	YES	End.
		2	Turn off the power switch in the middle of copying operation, and open the copier's top unit. Is the toner image on the photosensitive drum normal? (Act quickly to protect the drum from light.)	NO	Go to step 6.
Transfer	Transfer charging roller	3	Is the transfer charging roller normal?	NO	1. Re-install the transfer charging roller. 2. Replace the transfer charging roller.
	Copy paper	4	Try fresh copy paper. Is the copy darker?	YES	1. The copy paper may be moist. Advise the user on the correct method of storing paper. 2. Advise the user that the use of paper not recommended by Canon may not always bring about the best results.
	Lower transfer guide, Varistor	5	Measure the resistance between the lower transfer guide plate and the fixing assembly side plate (metal portion). Is it 0 Ω?	YES	1. Find out if the lower transfer guide plate is in contact with a metal part (e.g., side plate). 2. Replace the varistor.
	Composite power supply PCB, DC controller PCB			NO	1. Check the contact of the transfer high-voltage terminal for electrical continuity. 2. Check the composite power supply PCB and the DC controller PCB.
Cartridge		6	Replace the cartridge. Is the problem corrected?	YES	End.
Developing bias, Developing bias terminal				NO	Replace the electrical unit (composite power supply PCB, DC controller PCB).

4	**The copy has uneven density (darker at front).**
5	**The copy has uneven density (lighter at front).**

Cause	Step	Checks	Results	Action
Scanner	1	Clean the scanning lamp, reflecting plate, lens, and mirror. Is the problem corrected?	YES	End.
Toner cartridge, Scanning lamp	2	Turn off the power switch in the middle of copying operation, and open the copier's top unit. Does the toner image on the photosensitive drum before transfer have uneven density?	YES	1. Replace the toner cartridge. 2. Replace the scanning lamp.
Transfer charging roller			NO	1. Re-install the transfer charging roller. 2. Replace the transfer charging roller.

6	**The copy has fogging (entire copy).**

Cause	Step	Checks	Results	Action
Scanner	1	Clean the scanning lamp, reflecting plate, lens, and mirror. Is the problem corrected?	YES	End.
Grounding spring	2	Is electrical continuity present between the PCB of the drum and the copier's top unit with the drum unit set in the copier?	NO	Check the grounding spring located at the center of the drum drive gear for installation.
Scanning lamp, Developing bias			YES	1. Check if the scanning lamp turns on normally. 2. Check the developing bias.

7	**The copy has fogging (vertical).**
8	**The copy has black lines (vertical, thick, fuzzy line).**
9	**The copy has black lines (vertical, fine).**

Cause	Step	Checks	Results	Action
Scanner	1	Clean the scanning lamp, reflecting plate, lens, and mirror. Is the problem corrected?	YES	End.
Transfer guide assembly	2	Clean the transfer guide assembly. Is the problem corrected?	YES	End.
Drum unit	3	Remove and insert the drum unit again. Is the problem corrected?	YES	End.
			NO	Replace the drum unit.

10	**The copy has white spots (vertical).**
11	**The copy has white lines (vertical).**

Cause	Step	Checks	Results	Action
Fixing assembly	1	Turn off the power switch in the middle of copying operation, and open the copier's top unit. Does the copy image have white spots/white lines before it moves through the fixing assembly?	NO	Check the fixing assembly.
Toner cartridge	2	Turn off then on the copier. Is the problem corrected?	YES	Advise the user that the toner cartridge is running out of toner.
Static eliminator	3	Clean the static eliminator. Is the image corrected?	YES	End.
Transfer charging roller	4	Is foreign matter or scratches found on the transfer charging roller assembly?	YES	Remove the foreign matter, or replace the transfer charging roller.
Toner cartridge			NO	Replace the toner cartridge.

12 The copy has white spots (vertical).

Cause	Step	Checks	Results	Action
Copy paper	1	Is copy paper of a type recommended by Canon?	NO	Try recommended paper, and check the copy image; if the results are good, advise the user to use recommended paper.
	2	Try fresh paper. Is the problem corrected?	YES	The copy paper may be moist; advise the user to wrap copy paper when storing it.
Scanner rail	3	Does the problem occur at the same location on every copy?	YES	Check the scanner rail for foreign matter.
Scanning lamp, Developing bias			NO	Check the scanning lamp for flickering, and check the developing bias.

13 The copy has a soiled back.

Cause	Step	Checks	Results	Action
	1	Turn off the power switch in the middle of copying operation. Is the back of the copy soiled?	NO	Go to step 3.
Transfer guide assembly	2	Is the transfer guide assembly soiled?	YES	1. Clean the transfer guide assembly. 2. Clean the registration roller. 3. Check the varistor. 4. Check the developing assembly for leakage of toner.
Feeding assembly	3	Is the feeding assembly soiled?	YES	Clean the feeding assembly.
Pick-up guide plate, Delivery roller			NO	Clean the pick-up guide plate and delivery roller.

14 The copy has a fixing fault.

Cause	Step	Checks	Results	Action
Copy paper	1	Is the copy paper of a type recommended by Canon?	NO	Try recommended paper; if the results are good, advise the user to use recommended paper.
Fixing film	2	Does the problem occur vertically and in the form of lines?	YES	Check the fixing film and the lower fixing roller for scratches; if scratches are found, replace the fixing film.
Fixing assembly heater	3	Does the heater turn on when copying starts?	NO	See "22. The fixing heater fails to turn on." (P.4-13)
DC controller PCB, Composite power supply PCB			YES	The control temperature of the fixing heater may be too low; check the thermistor, DC controller PCB, and composite power supply PCB

15	**The copy has a displaced leading edge (extremely wide margin).**
16	**The copy has a displaced leading edge (wide margin).**
17	**The copy has a displaced leading edge (no margin).**

Cause	Step	Checks	Results	Action
Pick-up roller, Pick-up clutch, Cassette	1	Select the cassette and then manual feeding mode. Is the displacement the same?	NO	Check the pick-up roller, pick-up clutch, and cassette; as necessary, replace the part.
Sensor (PS1), Light-blocking plate	2	Are the scanning home position sensor (PS1) and the light-blocking plate normal?	NO	Replace the part.
Image leading edge margin	3	Execute image leading edge margin adjustment. Is the problem corrected?	YES	End.
Solenoid (SL2), DC controller PCB	4	Is the registration clutch solenoid (SL2) operating normally?	NO	1. Check the solenoid (SL2). 2. Check the DC controller PCB.
Copy paper	5	Is the copy paper of a type recommended by Canon?	NO	Try recommended paper; if the results are good, advise the user to use recommended paper.
Registration clutch			YES	Check the registration clutch.

18 The copy has a blurred image.

Cause	Step	Checks	Results	Action
Scanner drive cable	1	Does the cable overlap on the cable pulley when the scanner is moving? Or, is the cable too loose or too taut?	YES	1. Re-route the cable. 2 If the cable is twisted or frayed, replace it.
Scanner rail	2	Move the No 1 mirror mount slowly by hand. Does the No. 1 mirror mount move smoothly?	NO	Clean the surface of the scanner rail with alcohol; then, apply lubricant.
	3	Is an abnormal noise generated from the scanner motor?	YES	See "The scanner fails to move forward/in reverse."
Feeding system	4	Does the copy paper snap or stop around the transfer assembly?	YES	Check the feeding system for burrs.
Drum unit			NO	Replace the drum unit.

19 The copy has fogging (horizontal).

Cause	Step	Checks	Results	Action
Scanning lamp	1	Does the scanning lamp flicker?	YES	Replace the scanning lamp.
Drum unit High-voltage transfer assembly	2	Replace the drum unit. Is the problem corrected?	YES	End.
			NO	Check the high-voltage transformer (composite power supply PCB).
Scanner	3	Make a reduced copy. Does the problem occur at the same location as on DIRECT copies?	YES	Check the scanner.
Feeding system			NO	Check the feeding system.

20 The copy has poor sharpness.

Cause	Step	Checks	Results	Action
	1	Is the copy image also too light?	YES	Correct the light image first.
Original	2	Is the original off contact from the glass surface?	YES	1. Check the copyboard cover for warping. 2. Advise the user on how to place an original on the copyboard.
Lens	3	Turn off and then on the power switch. Does the lens move smoothly?	NO	Check the rail of the lens for foreign matter, and clean it as necessary.
Mirror	4	Is the horizontal reproduction ratio of DIRECT copies within standards?	NO	Adjust the distance between the No. 1 and No. 2 mirrors.
Scanner	5	Clean the scanning lamp, reflecting plate, mirror, and lens. Is the problem corrected?	YES	End.
Drum unit			NO	Replace the drum unit.

21 The copy is completely blank.

Cause	Step	Checks	Results	Action
Toner cartridge	1	Is toner inside the toner cartridge?	YES	Replace the toner cartridge.
	2	Is the opening seal removed?	NO	Remove the opening seal.
Drum drive assembly	3	Is the drum drive gear rotating normally?	NO	Check the drum drive assembly. **Caution:** Be sure to install the drum unit before mading checks.
High-voltage transformer	4	Is the primary charging terminal on the left of the drum unit front in firm contact with the high-voltage terminal of the copier bottom?	YES	Check the high-voltage transformer (composite power supply PCB).
Terminal for primary high-voltage charging, Cartridge			NO	1. Check the contact for electrical continuity. 2. Try replacing the drum unit.

22 The copy is solid black.

Cause	Step	Checks	Results	Action
	1	Does the scanning lamp remain on during copying operation?	NO	See "The scanning lamp fails to turn on."
			YES	Check the drum unit to see if it is set properly.

CHAPTER 4 TROUBLESHOOTING MALFUNCTIONS

I. TROUBLESHOOTING BY MALFUNCTIONS

1	E000

Cause	Step	Checks	Results	Action
Thermistor (TH1)	1	Is the connector J102 on the DC controller normal, and is the wiring from the connector to the thermistor (TH1) normal?	NO	Correct the connection of the connector J102 on the DC controller PCB and wiring to the thermistor (TH1).
Thermistor (TH2)	2	Is the connection of the connector J117 on the DC controller PCB normal, and is the wiring from the connector to the thermistor (TH2) normal?	NO	Correct the connection of the connector J117 on the DC controller and the wiring to the thermistor (TH2).
Thermistor (TH1)	3	Is electrical continuity present between the connectors J102-1 and J102-10 on the thermistor side when the fixing assembly is cooled to the room temperature? (resistance: 6.8 KΩ)	NO	Replace the upper fixing unit.
Thermistor (TH2)	4	Is electrical continuity present between the connectors J117-1 and J117-2 on the thermistor side when the fixing assembly is cooled to the room temperature? (resistance: 4.0 KΩ)	NO	Replace the upper fixing unit.
Fuse (open circuit, melting)	5	Is electrical continuity present between the connectors J207-1 and J207-2 on the composite power supply PCB? (resistance: approx 80 Ω)	NO	Replace the upper fixing unit.
Thermistor	6	Replace the upper fixing unit. Is the problem corrected?	YES	End.
Composite power supply PCB	7	Replace the composite power supply PCB. Is the problem corrected?	YES	End.
DC controller PCB			NO	Replace the DC controller PCB.

2	E001

Cause	Step	Checks	Results	Action
Thermistor (TH1)	1	Is the connection of the connector J102 on the DC controller normal, and is the wiring from the connector to the thermistor (TH1) normal?	NO	Correct the connection of the connector J102 on the DC controller PCB and the wiring to thermistor (TH1).
Thermistor (TH2)	2	Is the connection of the connector J117 on the DC controller PCB normal, and is the wiring from the connector to the thermistor (TH2) normal?	NO	Correct the connection of the connector J117 on the DC controller PCB and the wiring to the thermistor (TH2).
Thermistor (TH1)	3	Is electrical continuity present between the connectors J102-1 and J102-10 on the thermistor side when the fixing assembly has been cooled to the room temperature? (resistance: approx. 1.5 MΩ)	NO	Replace the upper fixing unit.
Thermistor (TH2)	4	Is electrical continuity present between the connectors J117-1 and J117-2 on the thermistor side when the fixing assembly has been cooled to the room temperature? (resistance: approx. 4.0 MΩ)	NO	Replace the upper fixing unit.
Composite power supply PCB	5	Replace the composite power supply PCB. Is the problem corrected?	YES	End.
DC controller PCB			NO	Replace the DC controller PCB.

3	E002, E003

Cause	Step	Checks	Results	Action
Thermistor (TH1)	1	Is the connection of the connector J102 on the DC controller PCB normal, and is the wiring from the connector to the thermistor (TH1) normal?	NO	Correct the connection of the connector J102 on the DC controller PCB and the wiring to the thermistor (TH1).
Thermistor (TH1)	2	Is electrical continuity present between the connectors J102-1 and J102-10 on the thermistor side when the fixing assembly has been cooled to the room temperature? (resistance. approx. 1.5 MΩ)	NO	Replace the upper fixing unit.
Fuse (open circuit, melting)	3	Is electrical continuity present between the connectors J207-1 and J207-2 on the composite power supply PCB? (resistance: approx. 4.0 MΩ)	NO	Replace the upper fixing unit.
Thermistor	4	Replace the upper fixing unit. Is the problem corrected?	YES	End.
Composite power supply PCB	5	Replace the composite power supply PCB. Is the problem corrected?	YES	End.
DC controller PCB			NO	Replace the DC controller PCB.

4	E007

Cause	Step	Checks	Results	Action
Fixing film	1	Does the fixing film have a cut or a tear?	YES	Replace the upper fixing unit.
Tension wire	2	Is the tension wire properly hooked on the friction roller?	NO	Re-hook the tension wire correctly.
Balance spring	3	Is the balance spring hooked properly?	NO	Re-hook the balance spring correctly.
Fixing film displacement sensor (PS4)	4	Is the fixing film displacement sensor (PS4) normal?	NO	Check the wiring from the connector J112 on the DC controller PCB to PS4; if normal, replace PS4.
	5	Execute fixing film displacement adjustment. Is the problem corrected?	YES	End.
Upper fixing unit	6	Replace the upper fixing unit. Is the problem corrected?	YES	End
DC controller PCB			NO	Replace the DC controller PCB.

5 E010

Cause	Step	Checks	Results	Action
Wiring 1	1	Is the connection of the connector J205 on the composite power supply PCB normal, and is the wiring to the main motor (M1) normal?	NO	Correct the connection of the connector J205 on the composite power supply PCB and the wiring to the main motor (M1).
Wiring 2	2	Are the connection and wiring of the following connectors normal? Composite power supply PCB: J203, J204 DC controller PCB: J103, J104	NO	Correct the connectors and wiring.
Main motor unit	3	Replace the main motor unit. Is the problem corrected?	YES	End.
DC controller PCB			NO	Replace the DC controller PCB.

6 E030

Cause	Step	Checks	Results	Action
Wiring	1	Is the wiring from the total counter to the connector J119 on the DC controller PCB normal?	NO	Correct the wiring.
Total counter	2	Replace the total counter. Is the problem corrected?	YES	End.
DC controller PCB			NO	Replace the DC controller PCB.

7 E064

Cause	Step	Checks	Results	Action
Wiring	1	Turn off and then on the power switch, and set the copy count to '1'. Is 'E064' indicated after copying operation?	YES	Check the wiring between the DC controller PCB and the composite power supply PCB Check the wiring between the composite power supply PCB and the high-voltage contact PCB.
High-voltage contact	2	Is the high-voltage contact of the copier's top and bottom normal?	NO	Correct the high-voltage contact of the copier's top and bottom.
Transfer charging roller	3	Is a fault found in the transfer charging roller or the contact?	YES	Replace the transfer charging roller.
Primary charging roller	4	Replace the cartridge. Is the problem corrected?	YES	End.
High-voltage cable	5	Are there scratches or tears in the high-voltage cable?	YES	Replace the high-voltage cable.
Composite power supply PCB	6	Replace the composite power supply PCB. Is the problem corrected?	YES	End.
DC controller PCB			NO	Replace the DC controller PCB.

8 Control panel keys become locked

Cause	Step	Checks	Results	Action
	1	Turn on the power. Does the scanner move?	NO	See "The scanner fails to move forward/in reverse."
Scanner home position sensor (PS1)	2	Is the scanner home position sensor (PS1) normal? (See the instructions on how to check the photointerrupters.)	NO	Check the wiring from the connector J101 on the DC controller PCB to PS1; if normal, replace the PS1.
DC controller PCB			NO	Replace the DC controller PCB.

9 E210

Cause	Step	Checks	Results	Action
	1	Turn on the power switch. Does the lens move?	NO	See "The lens fails to move."
Lens home position sensor (PS2)	2	Is the lens home position sensor (PS2) normal? (See the instructions on how to check the photointerrupters.)	NO	Check the wiring from the connector J109 on the DC controller PCB to the lens home position sensor (PS2); if normal, replace PS2.
DC controller PCB	3	Replace the DC controller PCB. Is the problem corrected?	YES	End.

10 E220

Cause	Step	Checks	Results	Action
	1	Press the Copy Start key. Does the scanning lamp turn on?	NO	See "The scanning lamp fails to turn on."
Wiring	2	Is the wiring from the intensity/AE sensor PCB to the DC controller PCB normal?	NO	Correct the wiring from the intensity/AE sensor PCB to the DC controller PCB.
	3	Is the wiring from the composite power supply PCB to the scanning lamp normal?	NO	Correct the wiring from the composite power supply PCB to the scanning lamp.
Intensity/AE sensor PCB	4	Replace the intensity/AE sensor PCB. Is the problem corrected?	YES	End.
DC controller PCB	5	Replace the DC controller PCB. Is the problem corrected?	YES	End.
Composite power supply PCB			NO	Replace the composite power supply PCB.

11 E240

Cause	Step	Checks	Results	Action
Wiring	1	Are the connection and wiring of the following connectors normal? Composite power supply PCB: J203, J204 DC controller PCB: J103, J104	NO	Correct the connection and wiring of each connector.
DC controller PCB	2	Replace the DC controller PCB. Is the problem corrected?	YES	End.
Composite power supply PCB			NO	Replace the composite power supply PCB.

12 E261

Cause	Step	Checks	Results	Action
Power supply frequency	1	Turn off and then on the power switch. Is the problem corrected?	YES	End. However, if 'E261' occurs frequently, advise the user to use a frequency stabilizer.
DC controller PCB	2		YES	End.
Composite power supply PCB			NO	Replace the composite power supply PCB.

13 E803

Cause	Step	Checks	Results	Action
Malfunction	1	Turn off and then on the power switch. Is the problem corrected?	YES	End.
	2	Does the scanning lamp turn on?	YES	See the descriptions for 'E220'.
DC controller PCB	3	Replace the DC controller PCB. Is the problem corrected?	YES	End.
Composite power supply PCB			NO	Replace the composite power supply PCB.

14 AC power is absent.

Cause	Step	Checks	Results	Action
Power plug	1	Is the power plug connected?	NO	Connect the power plug.
	2	Turn on the power switch. Is 'E0' indicated?	YES	See "E0"
Copier top unit	3	Is the copier's top unit closed properly?	NO	Close the copier's top unit properly.
Power supply voltage	4	Is the specified voltage present at the power outlet?	NO	Advise the user that the problem is not of the copier's.
Fuse	5	Is the fuse (FU501) on the noise filter PCB blown? (12A for 115V model; 6.3A for 220/240V model)	YES	Remove the cause, and replace the fuse.
Fuse	6	Is the fuse (FU102) on the composite power supply PCB blown? (5A for 115V model; 2A for 220/240V model)	YES	Remove the cause, and replace the fuse.
Door switch (DS1)	7	Remove the door switch, and connect the meter probes to J3 and J5 or J4 and J6 of the door switch faston. Is the resistance about 0 Ω when the actuator is engaged and about ∞ Ω when released?	NO	Replace the door switch (DS1).
Noise filter PCB	8	Is the specified voltage present between J1-1 and J1-2? (J1 is the relay connector found between the noise filter PCB and the composite power supply PCB.)	NO	Replace the noise filter PCB.
Wiring	9	Is the specified voltage present at the connectors J201-1 and J201-2 on the composite power supply?	NO	Check the wiring and the connectors.
Connector	10	Is electrical continuity present between the connector J111-15 on the DC controller PCB and the connector J301-15 on the control panel PCB?	NO	Correct the electrical continuity between the connector J111-15 on the DC controller PCB and the connector J301-15 on the control panel PCB.
Connector	11	Is electrical continuity present between the connector J204-1 on the composite power supply PCB and the connector J104-7 on the DC controller PCB and between J203-6 on the composite power supply PCB and J103-7 on the DC controller PCB?	NO	Check the connectors for electrical continuity; if normal, replace the DC controller PCB.
Control panel PCB	12	Replace the control panel PCB. Is the problem corrected?	YES	End.
Composite power supply PCB			NO	Replace the composite power supply PCB.

15 DC power is absent.

<table>
<tr><th>Cause</th><th>Step</th><th>Checks</th><th>Results</th><th>Action</th></tr>
<tr><td>AC power supply</td><td>1</td><td>Is AC power present on the following terminals?
J201-1, J201-2 (composite power supply PCB)</td><td>NO</td><td>See “AC power supply is absent.”</td></tr>
<tr><td>Wiring DC load</td><td>2</td><td>Turn off the power switch, and disconnect all the following connectors:
J202, J205 (composite power supply PCB)
Set the meter to the 30VDC range, and turn on the power switch; is the voltage between the following terminals normal?
<table>
<tr><th>Connector</th><th>Pin</th><th>Output</th><th>Remarks</th></tr>
<tr><td>J202</td><td>1
2
3
4
5
6</td><td>24V
GND
5V
5V
24V
GND</td><td>to DC controller PCB</td></tr>
<tr><td>J205</td><td>1
2</td><td>24V
GND</td><td>to main motor driver</td></tr>
</table></td><td>YES</td><td>See “E000”, “E001”, “E002”, or “E003”.</td></tr>
<tr><td>Fuse resistor</td><td rowspan="2">3</td><td rowspan="2">Is the fuse (FU102) on the composite power supply PCB blown? (5A for 115V model; 2A for 220/240V model)</td><td>YES</td><td>Remove the cause, and replace the fuse.</td></tr>
<tr><td>Composite power supply PCB</td><td>NO</td><td>Replace the composite power supply PCB</td></tr>
</table>

16 Pick-up fails (cassette).

Cause	Step	Checks	Results	Action
Main motor (M1	1	Is the main motor (M1) rotating after a press on the Copy Start key?	NO	See "The main motor fails to rotate."
Paper in cassette	2	Is paper properly set in the cassette?	NO	Advise the user on the correct way of setting paper.
Cassette	3	Slide out and in the cassette. Is the problem corrected?	YES	End. Advise the user to set the cassette properly.
Pick-up clutch solenoid (SL1)	4	Set the meter to the 30VDC range. Is the voltage between the connectors J109-4 (+) and J109-3 (-) on the DC controller PCB about 24 v when pick-up occurs?	YES	Check the spring clutch of the pick-up assembly; if normal, replace the solenoid.
DC controller PCB			NO	Check the wiring from the DC controller to the solenoid; if normal, replace the DC controller PCB.

17 Pick-up fails (multifeeder).

Cause	Step	Checks	Results	Action
Wrong operation	1	Is the multifeeder selected on the control panel?	YES	Advise the user.
Main motor (M1)	2	Is the main motor (M1) rotating after a press on the Copy Start key?	NO	See "The main motor fails to rotate."
Paper	3	Is paper properly set in the multifeeder?	NO	Advise the user on the correct way of setting paper.
Multifeeder pick-up solenoid (SL4)	4	Set the meter to the 30VDC range. Is the voltage between the connectors J109-7 (-) and J109-8 (+) on the DC controller PCB about 24 V when the multifeeder pick-up selection switch is turned on?	YES	Check the spring clutch of the multifeeder pick-up assembly; if normal, replace the solenoid.
DC controller PCB			NO	Check the wiring from the DC controller PCB to the solenoid; if normal, replace the DC controller PCB.
Pick-up clutch solenoid (SL1)	5	Set the meter to the 30VDC range. Is the voltage between connectors J109-4 (-) and J109-3 (+) on the DC controller PCB about 24 V when pick-up occurs?	YES	Check the spring clutch of the pick-up assembly; if normal, replace the solenoid.
DC controller PCB			NO	Check the wiring from the DC controller to the solenoid; if normal, replace the DC controller PCB.

18 The scanner fails to move forward.

Cause	Step	Checks	Results	Action
Cable	1	Is the scanner drive cable properly routed?	NO	Re-route it.
Scanner path	2	Is the scanner free of dirt? Move the scanner by hand. Does it move smoothly?	NO	Check the scanner rail for dirt and foreign matter; look for any object that may come into contact with the scanner.
Composite power supply PCB	3	Set the meter to the 30VDC range. Connect the meter probes to the connectors J202-2 (+) and J202-1 (-) on the composite power supply PCB. Is the reading about 24 V?	NO	See "DC power is absent."
Pre-registration roller sensor (Q751)	4	Is the pre-registration roller sensor (Q751) normal? (See the instructions on how to check the photointerrupters.)	NO	Check the wiring from the connector J108 on the DC controller PCB to Q751; if normal, replace Q751.
Scanner motor(M2)	5	Is the wiring from the scanner motor (M2) to the connector J110 on the DC controller PCB normal?	YES	Replace the scanner motor (M2).
DC controller PCB			NO	Replace the DC controller PCB.

19 The registration roller fails to rotate.

Cause	Step	Checks	Results	Action
Main motor (M1)	1	Is the main motor (M1) rotating after a press on the Copy Start key?	NO	See "The main motor fails to rotate."
Pre-registration roller sensor (Q751)	2	Is the pre-registration roller paper sensor (Q751) normal? (See the instructions on how to check the photointerrupters)	NO	Check the wiring from the connector J108 on the DC controller PCB to Q751; if normal, replace Q751.
Registration roller spring clutch	3	Does the registration clutch solenoid (SL2) turn on in about 3.5 sec after a press on the Copy Start key?	NO	Check the position of the solenoid; if normal, check the spring clutch and the control ring. (Replace the part as necessary.)
Registration clutch solenoid (SL2)	4	Set the meter to the 30 VDC range. Is the voltage between the connectors J109-5 (-) and J109-6 (+) on the DC controller PCB about 24 V in about 3.5 sec after a press on the Copy Start key?	YES	Check the wiring from the connector J109 on the DC controller PCB to SL2; if normal, replace SL2.
DC controller PCB			NO	Check the wiring from the DC controller PCB to the solenoid; if normal, replace the DC controller PCB.

20 The scanning lamp fails to turn on.

Cause	Step	Checks	Results	Action
Scanning lamp	1	Turn off the power switch, and disconnect the power plug from the power outlet. Is the scanning lamp installed properly?	NO	Re-install the scanning lamp.
Scanning lamp	2	Are the ends of the scanning lamp black?	NO	Replace the scanning lamp.
Connector	3	Is the connection of the connector J206 on the composite power supply PCB normal?	NO	Re-connect the connector.
DC controller PCB	4	Replace the DC controller PCB. Is the problem corrected?	YES	End.
Composite power supply PCB			NO	Replace the composite power supply PCB.

21 The lens fails to move

Cause	Step	Checks	Results	Action
Lens drive solenoid (SL3)	1	Does the lens drive solenoid (SL3) operate when the power switch is turned on?	NO	Check the wiring from the connector J109 on the DC controller PCB to SL23; if normal, replace SL3.
Lens cable, Pulley, Rail	2	Are the lens cable, pulley, and rail normal?	NO	Check the lens cable, pulley, and rail. As necessary, clean or re-route the cable.
DC power supply	3	Is 24VDC output present at the connector J202-2 on the composite power supply PCB?	NO	See "DC power is absent."
DC controller PCB	4	Is the wiring from the scanner motor (M2) to the connector J110 on the DC controller PCB normal?	NO	Replace the DC controller PCB.
Scanner motor (M2)			YES	Replace the scanner motor (M2).

22 The fixing heater fails to turn on.

Cause	Step	Checks	Results	Action
	1	Is 'E0' indicated?	YES	See 'E0.'
DC controller PCB	2	Replace the DC controller PCB. Is the problem corrected?	YES	End.
Composite power supply PCB			NO	Replace the composite power supply PCB.

23 The 'ADD PAPER' message fails to turn off.

Cause	Step	Checks	Results	Action
Cassette	1	Is the cassette set properly?	NO	Set the cassette properly.
Lens cable, Pulley rail	2	Are the lens cable, pulley, and rail normal?	NO	Check the lens cable, pulley, and rail. As necessary, clean and re-route the cable.
DC power supply	3	Is 24VDC output present at the connector J202-2 on the composite power supply PCB?	NO	See "DC power is absent."
Cassette paper sensor (Q752)	4	Is the cassette paper sensor (Q752) normal? (See the instructions on how to check the photointerrupters)	NO	Check the wiring from the DC controller PCB to the sensor; if normal, replace the sensor.
DC controller PCB			YES	Replace the DC controller PCB.

24 The 'JAM' message fails to turn off.

Cause	Step	Checks	Results	Action
Jam	1	Is a jam found around the following sensor? • pre-registration roller paper sensor (Q751) • delivery sensor (PS3)	YES	Remove the jam.
Sensor	2	Is the sensor checked in step 1 normal? (See the instructions on how to check the photointerrupters.)	NO	Check the wiring from the DC controller PCB to the sensor; if normal, replace the sensor.
DC controller PCB			YES	Replace the DC controller PCB.

CHAPTER 5 TROUBLESHOOTING PAPER FEED PROBLEMS

I. COPY PAPER JAMS

Jams in the copier may be classified by location as follows:

① pick-up assembly
② separation/feeding assembly
③ fixing/delivery assembly

The discussions that follow, therefore, are compiled according to these locations.

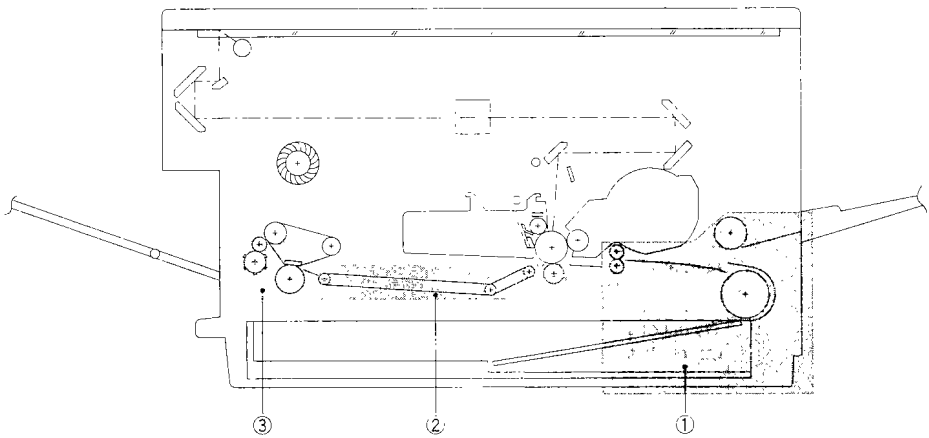


Figure 5-1

1 Pick-Up Assembly

Cause	Step	Checks	Results	Action
	1	Is the source of paper the cassette?	NO	Go to step 8.
Cassette	2	Is the cassette set properly in the cassette?	NO	Set the cassette properly in the copier.
Copy paper	3	Is the copy paper curled or wavy?	YES	Replace the copy paper; advise the user on the correct method of storing paper.
	4	Try paper of a type recommended by Canon. Is the problem corrected?	YES	Advise the user to use recommended paper.
DC controller PCB, Pick-up clutch	5	Does the pick-up roller rotate during copying operation?	NO	See "Pick-up fails."
Pick-up roller	6	Is the pick-up roller deformed or worn?	YES	Replace the pick-up roller.
	7	Try manual feeding. Does the main motor start to rotate?	NO	See "Pick-up fails."
Registration roller drive assembly	8	Dose the registration roller operate normally?	NO	See "The registration roller fails to rotate."
Copy paper	9	Try paper of a type recommended by Canon. Is the problem corrected?	YES	Advise the user to use recommended paper.
Pick-up roller			NO	Check the pick-up roller for wear and deformation.

2 Separation/Feeding Assembly

Cause	Step	Checks	Results	Action
Copy paper	1	Try paper of a type recommended by Canon. Is the problem corrected?	YES	Advise the user to use recommended paper.
	2	Is the copy paper curled or wavy?	YES	Replace the copy paper; advise the user on the correct method of storage.
Feeding assembly	3	Is foreign matter found in the feeding assembly.	YES	Remove the foreign matter.
Feeding belt, Feeding roller	4	Is the feeding belt moving properly?	NO	Check the belt and roller; replace the part as necessary
Static eliminator	5	Is the static eliminator soiled with toner?	YES	Clean the static eliminator.
Registration roller	6	Is the registration roller worn, deformed, or soiled?	YES	If dirt is found, clean it using alcohol; if worn or deformed, replace it.
Spring (registration system), Spring clutch (registration assembly)			NO	1. Check the spring associated with registration control. 2. Check the spring clutch of the registration assembly.

3 Fixing/Delivery Assembly

Cause		Step	Checks	Results	Action
Separation claws (delivery assembly)		1	Are the separation claws worn or deformed?	YES	1. Replace the separation claw. 2. If dirt is found, clean it with solvent.
Fixing assembly	Lower fixing roller	2	Is the lower fixing roller or the fixing film deformed or scratched?	YES	Replace the roller.
	Paper guide	3	Is the fixing assembly inlet guide soiled with toner?	YES	Clean it with solvent.
Delivery assembly	Delivery detecting lever	4	Does the delivery detecting lever move smoothly?	NO	Adjust so that it moves smoothly.
	Delivery sensor (PS3)	5	Does the delivery sensor operate normally? (See the instructions on how to check the photointerrupters.)	NO	Replace the sensor.
	Delivery roller drive assembly	6	Does the delivery roller move smoothly?	NO	Check the delivery roller drive assembly.
Leading edge margin				YES	Check if there is a margin along the leading edge of the copy.

II. FEEDING FAULTS

1 Doublefeeding

Cause	Step	Checks	Results	Action
Separation pad	1	Is the separation pad deformed or worn?	YES	Replace the separation pad.
Spring			NO	Push up the separation pad, and replace the spring.

2 Wrinkles

Cause		Step	Checks	Results	Action
Pick-up assembly, Registration roller		1	Turn off the power while copy paper is moving through the feeding assembly. At this time, are wrinkles found on the copy paper? Is the paper moving askew?	YES	• Check the pick-up assembly. • Check the registration roller.
Copy paper		2	Try fresh copy paper. Is the problem corrected?	YES	The copy paper may be moist; advise the user on the correct method of storing paper.
		3	Try paper of a type recommended by Canon. Is the problem corrected?	YES	Advise the user to use recommended paper.
Fixing assembly	Inlet guide	4	Is foreign matter found on the inlet guide?	YES	Clean the part with solvent.
	Fixing assembly			NO	Check the fixing assembly.

CHAPTER 6 FUNCTIONS AND ARRANGEMENT OF ELECTRICAL PARTS

A. Sensors and Solenoids

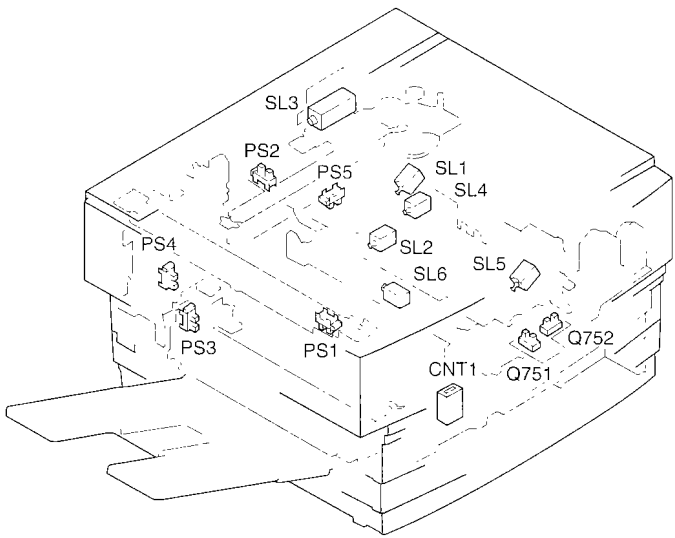


Figure 6-1

Symbol	Name	Notation	Description	Remarks
PS	Photointerrupters	PS1	Detects the scanner home position	
		PS2	Detects the lens home position	
		PS3	Detects paper in the delivery assembly.	
		PS4	Detects displacement of the fixing film	
		PS5	Detects waste toner	
CNT	Counter	CNT1	Total copy counter	
		Q751	Detects paper around the pre-registration roller	
		Q752	Detects paper in the cassette	
SL	Solenoid	SL1	Pick-up clutch solenoid	
		SL2	Registration clutch solenoid	
		SL3	Lens drive solenoid	
		SL4	Multifeeder pick-up solenoid	
		SL5	Primary charging roller cleaning solenoid	
		SL6	Transfer charging roller escape solenoid	

B. Switches

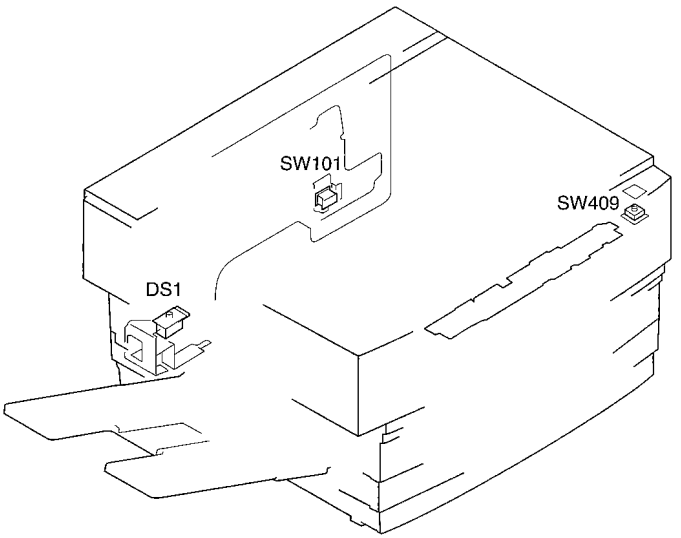


Figure 6-2

Symbol	Name	Notation	Description	Remarks
	Switch	DS1 SW409	Door switch Power switch	
	Switch	SW101	Scanning lamp heater switch	

C. Lamps, Heaters, Motors, and Others

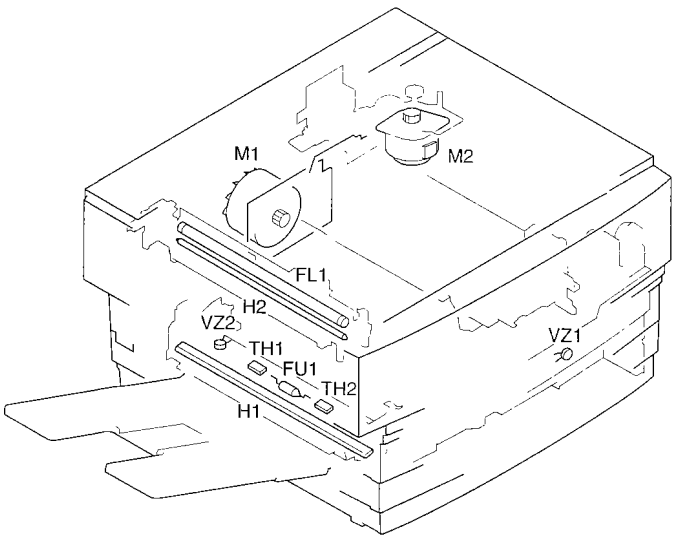


Figure 6-3

Symbol	Name	Notation	Description	Remarks
	Fluorescentlamp	FL1	Scanning lamp	
	Heater	H1	Fixing heater	
		H2	Scanning lamp heater	
M	Motor	M1	Main motor	
		M2	Scanning motor	
	Thermistor	TH1	Detects the temperature of the fixing heater.	
		TH2	Detects the temperature of the ends of the fixing heater.	
	Thermal fuse	FU1	Detects overheating of the fixing heater.	
	Varistor	VZ1	Transfer guide varistor	
		VZ2	Fixing film varistor	

D. PCBs

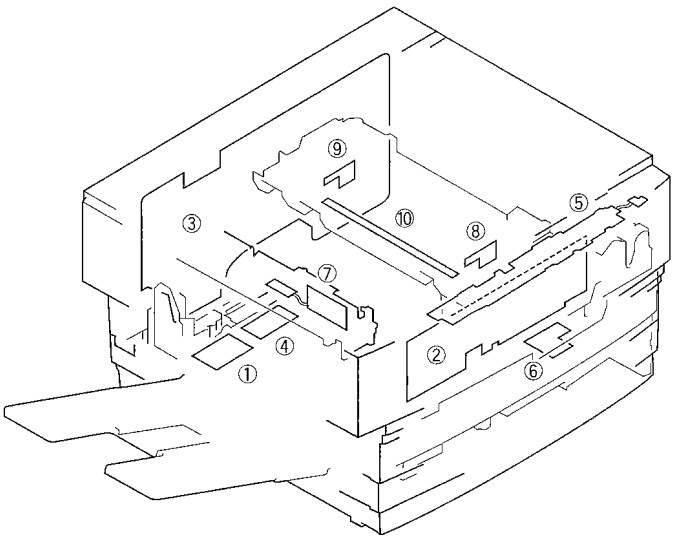


Figure 6-4

Ref.	Name	Description
①	Noise filter PCB	Removes noise from the power supply.
②	DC controller PCB	Controls the sequence and activation of the scanning lamp.
③	Composite power supply PCB	Supplies DC power.
④	High-voltage contact PCB	Electrically connects the copier's top and bottom units.
⑤	Control panel PCB	Used for copier operation and indications.
⑥	Sensor PCB	Detects paper around the pre-registration roller and cassette; detects the color of the cartridge.
⑦	Intensity/AE sensor PCB	Detects the density of originals and the intensity of the scanning lamp.
⑧	Blank exposure PCB (front)	Used for blank exposure.
⑨	Blank exposure PCB (rear)	Used for blank exposure.
⑩	Pre-exposure PCB	Used for pre-exposure.

E. Variable Resistors (VR) and Check Pins by PCB

Of the VRs and check pins used for the copier, those that are intended for servicing in the field are discussed.

Do not touch the VRs and check pins that are not discussed herein; they are for the factory, and require special tools/instruments and high precision for adjustment.

Caution:
VRs that may be used in the field..... ⊘
VRs that must not be used in the field..... ⊘

1. DC Controller PCB

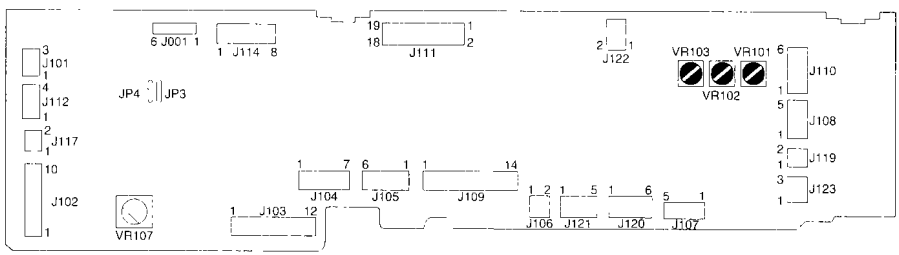


Figure 6-5

CHAPTER 7 SERVICE MODE

A. Outline

The copier's service mode may be classified into the following four:

No.	Mode
[30]	Adjustment
[40]	Operation/inspection
[50]	Machine settings
[60]	Counter

Table 7-1

B. Using Service Mode

1. Starting Service Mode

1) Open the copier's top unit, and remove the two screws ①; then, remove the upper front cover ②.

Caution:

A flexible cable for the control panel is connected to the front upper cover; take care not to damage the cable.

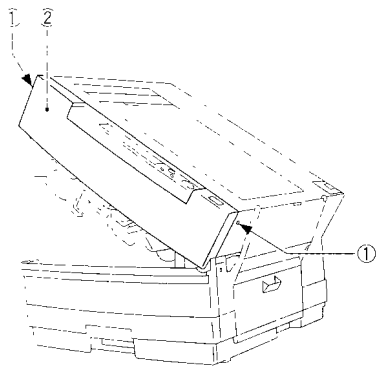


Figure 7-1

2) Turn on the copier, and short the jumper wires JP3 and JP4 on the DC controller PCB with a screwdriver.
   • The count/ratio indicator on the control panel turns on 'F'.

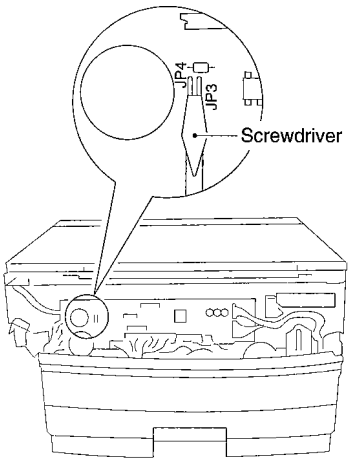


Figure 7-2

3) When 'F' has turned on, stop shorting the jumper wires JP3 and JP4.

2. Ending Service Mode

1) Press the Clear/Stop key.

3. Selecting Items in Service Mode

1) While the count/ratio indicator is indicating 'F', choose the appropriate item by pressing the +/- key.
   • The tens column of the classification number starts to flash.
   • The number changes between 30 and 62 in response to the key operation.
2) Press the Start key to select the item.
   • The flashing classification number changes to the flashing current setting.

4. Using Adjustment Mode and Machine Settings Mode

1) Change the setting by pressing the +/- key.
   • The setting starts to flash.
2) Press the AE key to select the setting.
   • The setting stops flashing and remains on.
   • A press on the Start key starts copying operation. (adjustment mode '30' only)
3) To change the setting once again, repeat steps 1) and 2) without an interruption.
4) Press the Clear/Stop key to return to item selection.

5. Using Operation/Inspection Mode

1) Press the Start key to execute the appropriate service mode.
   • The item number keeps flashing while the mode is being executed.
2) Press the Clear/Stop key so that item selection returns after operation.
   • If the mode is of a type that automatically ends the operation, item selection will return automatically.

6. Resetting a Back-Up Error Code

If 'E000', 'E001', 'E002', or 'E003' is indicated, remove the cause of the error, and reset the error as follows:

1) While shorting the jumper wires JP3 and JP4 on the DC controller PCB with a screwdriver, turn on the copier.
   • The count/ratio indicator turns on 'F'.
2) Turn off and then on the copier to check copying operation.

Caution:

The power turns off automatically upon detection of 'E000', 'E001', 'E002', or 'E003'. If you turn on the power in this condition, the error code in question will appear once again and the power will turn off automatically once again. To find out which error code turns off the power, perform the foregoing steps after disconnecting the heater connector (J207) from the composite power supply PCB to protect the heater.

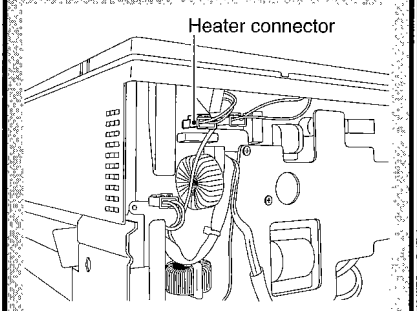


Figure 7-3

7. Filling Out the Service Label

Figure 7-4 shows the label attached behind the front upper cover. Each machine is adjusted and set at the factory, and the settings are recorded on the label.

You must correct the settings recorded on the label whenever you have entered new settings.

If you have replaced the DC controller, be sure to enter the settings recorded on the label. Further, if you have replaced the composite power supply PCB or the pre-exposure lamp, you must enter the settings recorded on the label attached to the service label and copy the settings to the service label.

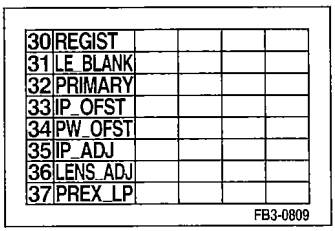


Figure 7-4

C. Adjustment Mode

1) Choose an item using the +/- key, and press the Start key to select it.
2) Increase or decrease the setting using the +/- key.
3) Press the AD key to store the setting.
4) If you changed the setting under No. 34 or No. 37 on a machine equipped with the drum unit replacement time automatic display function, turn off and then on the power. When you turn off and then on the power, the main motor will rotate and stop about 1 min later. If the machine is NOT equipped with the function, go to step 5).
5) To clear the Item, press the Clear/Stop key.
6) After changing the setting, record the new setting on the service label.
   • A press on the Start key while a description of service mode is indicated will start copying operation.
7) If you changed the setting of No. 34 or No. 37 on a machine is NOT equipped with the drum unit replacement time automatic display function, execute 'U7 installation/drum unit replacement mode' in user mode.

Item No.	Function	Settings	Description
30	Image leading edge margin adjustment	0~99	A higher setting will delay the copy paper in relation to the image, thereby decreasing the margin. default: 14
31	Image leading edge non-image width	0~99	A higher setting will increase the image leading edge non-image width. default: 32
32	Primary charging output voltage correction value (PRIMARY)	0~30	Use it to enter the setting recorded on the label on the drum cartridge after replacement of the drum cartridge. (You need not enter the setting if the machine has the drum unit replacement time automatic display function.)
33	APVC measurement current correction value (IP_OFST)	0~99	Use it to enter the setting recorded on the drum cartridge after replacement of the drum cartridge. (You need not enter the setting if the machine has the drum unit replacement time automatic display function.)
34	Execute measurement voltage correction for APVC (PW_OFST).	0~30	Use it to enter the setting recorded on the label on the composite power supply PCB after replacement of the composite power supply PCB. default: 15
35	Measurement current correction value at time of APVC (IP_ADJ)	0~30	Use it to record the setting recorded on the label on the composite power supply PCB after replacement of the composite power supply PCB. default: 15
36	Reproduction ratio fine adjustment (LENS_ADJ)	0~30	Use it to enter the setting recorded on the label on the composite power supply PCB after replacement of the composite power supply PCB. default: 15
37	Pre-exposure lamp output adjustment value (PREX_LP)	0~99	Use it to enter the setting recorded on the label on the pre-exposure lamp after replacement of the pre-exposure lamp. default: 50

Table 7-2

D. Operation/Inspection Mode

1) Choose the appropriate item using the +/- key, and press the Start key to select it.
2) Press the Start key to execute the operation.
3) To stop, press the Clear/Stop key.
   • If the mode is of a type that automatically stops operation, item selection will return automatically after the operation.

Item No.	Function	Description
40	AE adjustment check mode	The scanning lamp turns on, the main motor rotates, and the AE sensor setting appears.
41	Toner supply mode	Use it when replacing the developing assembly. Toner is stirred and supplied to the developing assembly. The operation stops automatically after about 10 to 60 sec
42	Back-up RAM clear	Operation 1) Using the +/- key, select No. 42. • '4' flashes 2) Press the Start key to select the appropriate item. • '42' flashes. 3) Press the AE key. • The indication changes to 'EE'. 4) Press the Start key. • The indication changes to '42', and '4' flashes. 5) Turn off and then on the power switch. • The backup RAM will be cleared, and the default settings will be stored to all adjustment modes and No. 50 and No. 51 of machine settings mode. • The indication changes to flashing '1' (if paper exists in the cassette) and the main motor rotates for about 1 min and stops. **Reference:** To stop clearing the RAM, press the Clear/Stop key before moving to step 4)

Table 7-3

E. Machine Settings Mode

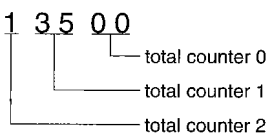
1) Choose the appropriate item using the +/- key, and press the Start key to select it.
2) Change the setting using the +/- key.
3) Press the AE key to store the setting.
4) To clear the item, press the Clear/Stop key.

Item No.	Function	Settings	Description
50	Changing the upper limit for copies	0~99	Setting it to '0' sets the upper limit to 100. default: 0
51	Selecting density adjustment mode	0~99	Use it to decide on whether the density adjustment mode at power-on should be AE or manual. 0: AE mode other than 0: manual mode default: 0

Table 7-4

F. Counter Mode

Use this mode to check the total copy counter. (If the machine is equipped with the drum unit replacement time automatic display function, indicates the number of copies processed by the existing drum unit.) The indication will be in tens/ones and thousands/hundreds, and ten thousands;
for example, if 13,500 copies,



1) Choose an item using the +/- key, and press the Start key to select it.
2) To clear the item, press the Clear/Stop key.

Item No.	Function	Description
60	Total counter 0	Indicates tens and ones.
61	Total counter 1	Indicates thousands and hundreds.
62	Total counter 2	Indicates ten thousands.

Table 7-5

G. Reproduction Ratio Fine Adjustment

Use this mode after replacing the following:

- DC controller PCB

Operation

1) Select '36' in service mode; and using the +/- key, enter the setting under 'LENS_ADJ' on the service label, and press the AE key.

H. Pre-Exposure Lamp Output Adjustment

Use this mode after replacing the following:

- DC controller PCB
- Pre-exposure lamp

Operation

- After Replacing the DC Controller PCB

1) Select '37' in service mode; and using the +/- key, enter the setting under 'PREX_LP' recorded on the service label, and press the AE key.

- After Replacing the Pre-Exposure Lamp

1) Select '37' in service mode; using the +/- key, enter the setting recorded on the label on the pre-exposure lamp you have replaced, and press the AE key.

2) Record the setting you have entered under 'PREX_LP' on the service label.

CHAPTER 8 SELF DIAGNOSIS

I. SELF DIAGNOSIS

The copier's DC controller PCB is equipped with a microprocessor that checks the state of the machine (sensors in particular); when it identifies an error, it indicates it in the copy counter on the control panel.

In the case of 'E001', 'E0' and '01' are flashed alternately.

Code	Cause	Description
C	Indicated when the fixing film is being corrected for displacement.	• After E007 The temperature detected by the thermistor (TH1) is 100°C or less at power-on.
CC	Indicated when the drum unit has reached its life (replacement).	• The cummulative number of copies made by the drum unit has reached 30,000.
H	Fixing heater (overheating)	• The thermistor (TH2) temperature exceeds 225°C during copying operation.
E000	• Thermistor (TH1, TH2; faulty) • Fixing heater (H1; faulty) • Thermal fuse (FU1; melted) • Triac (faulty) • DC controller PCB (faulty)	• The thermistor (TH1) temperature fails to reach 65°C 1.5 sec after a press on the Copy Start key. • The thermistor (TH1) temperature fails to reach 150°C in 4 sec after a press on the Copy Start key. • The thermistor (TH2) temperature fails to reach 65°C in 4 sec after a press on the Copy Start key. (Note 1)

8

Code	Cause	Description
E001	• Thermistor (TH1, TH2; faulty) • Triac (faulty) • DC controller PCB (faulty)	• The thermistor (TH1) temperature exceeds 245°C during copying operation. • The thermistor (TH1) temperature exceeds the control temperature by 30°C after a press on the Copy Start key. • The thermistor (TH2) temperature exceeds 275°C during copying operation. • The thermistor (TH1) detects a temperature increase of 100°C or more within 1 sec. • The thermistor (TH1) detects a temperature increase of 40°C or more during standby after it has reached 100°C. • The thermistor detects a temperature increase of 40°C after it has reached 130°C. (Note 1)
E002	• Thermistor (TH1; faulty) • Fixing heater (H1; faulty) • Thermal fuse (FU1; melting) • Triac (faulty) • DC controller PCB (faulty)	• The temperature detected by the thermistor (TH1) has exceeded 150°C during copying operation and maximum power is applied for 10 to 14 sec thereafter. (Note 1)
E003	• Thermistor (TH1; faulty) • Fixing heater (H1; faulty) • Thermal fuse (FU1; melting) • Triac (faulty) • DC controller PCB (faulty)	• The thermistor (TH1) temperature exceeds 190°C during copying and then drops 170°C or less for 0.1 sec or more. (Note 1)
E007	• Fixing heater film (displaced, torn)	• The output of the fixing film displacement sensor (PS5; '1') continues 100 ms or more while the main motor (M1) is operating. • The fixing film cannot be corrected for displacement when fixing film displacement correction mode is executed at power-on.
E010	• Main motor (M1; faulty) • DC controller PCB (faulty)	• The revolution of the main motor deviates from the specification for 1 sec or more while the main motor drive signal (MMD=1) is being generated, i.e., remains MLOCK=0.
E030	• Counter (open circuit) • DC controller PCB (faulty)	• The counter drive signal is not '1' when the counter operater. • The counter drive signal is not '0' when the counter is at rest.

Code	Cause	Description
E064	• Composite power supply PCB • DC controller PCB (faulty)	• The scanner does not leave the home position within 10 sec after it has started to move or the home position cannot be detected.
E210	• Lens home position sensor (faulty) • Scanner motor (faulty) • Lens cable • Scanner/lens drive switching mechanism (faulty) • DC controller PCB (faulty)	• The lens home position cannot be detected after the lens has traveled over its maximum distance. • The lens does not leave the lens home position. • A discrepancy is identified between the selected reproduction ratio and the lens position during copying operation.
E220	• Scanning lamp • Intensity sensor PCB (faulty) • DC controller PCB (faulty) • Composite power supply PCB (faulty)	• Intensity adjustment fails to end within 50 sec after the scanning lamp has turned on. • The scanning lamp remains on for 5 sec during standby. • The scanning lamp remains off for 5 sec during copying.
E240	• DC controller PCB (faulty) • Composite power supply (faulty)	• An error is detected in the communication between the DC controller PCB and the composite power supply PCB.
E261	• Power supply frequency (faulty) • Composite power supply PCB (faulty)	• The intervals in the zero-cross signals is greater than allowed.
E803	• DC controller PCB (faulty) • Composite power supply PCB (faulty) • Scanning lamp (faulty)	• The +24V power supply deviates from the control value by ±20% during copying.
keys on control board locked	• Scanner home position sensor (PS1, faulty) • Scanner motor (M2; faulty) • DC controller PCB (faulty)	• The lens home position cannot be detected after the lens has traveled over its maximum distance. • The lens does not leave the lens home position.

Note:
If the self diagnosis mechanism has turned on, you can reset the machine by turning it off once. This, however, does not apply in the case of E000, E001, E002, or E003; to reset, perform the following:

1) Open the copier's top unit, and remove the two screws ①; then, remove the upper front cover ②.

Caution:

A flexible cable for the control panel is connected to the front upper cover; take care not to damage the cable.

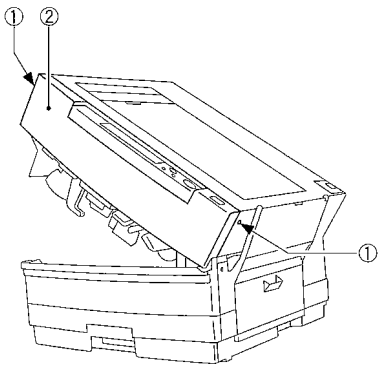


Figure 8-1

2) Turn on the copier, and short the jumper wires JP3 and JP4 on the DC controller PCB with a screwdriver.
   - The count/ratio indicator on the control panel turns on 'F'.

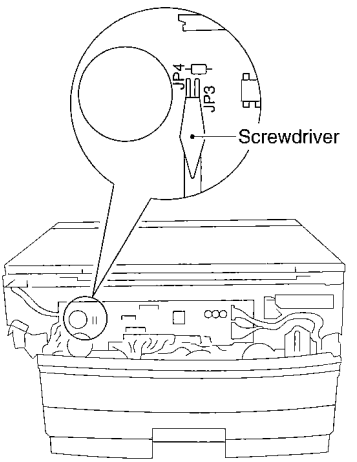
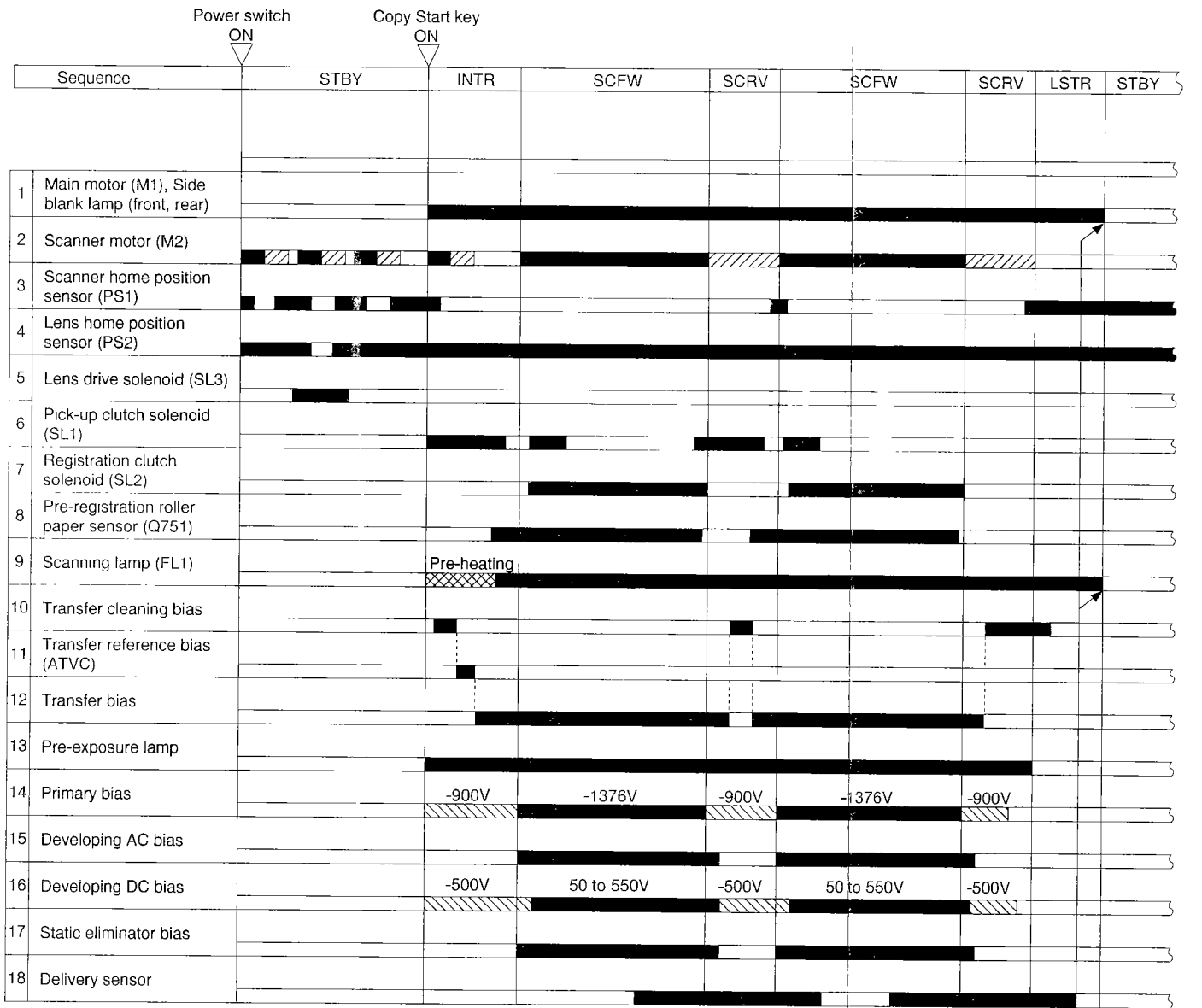


Figure 8-2

3) When 'F' has turned on, stop shorting the jumper wires JP3 and JP4.
4) Turn off and then on the copier.

APPENDIX
A. GENERAL TIMING CHART

(A4, 2 copies, DIRECT, from cassette)



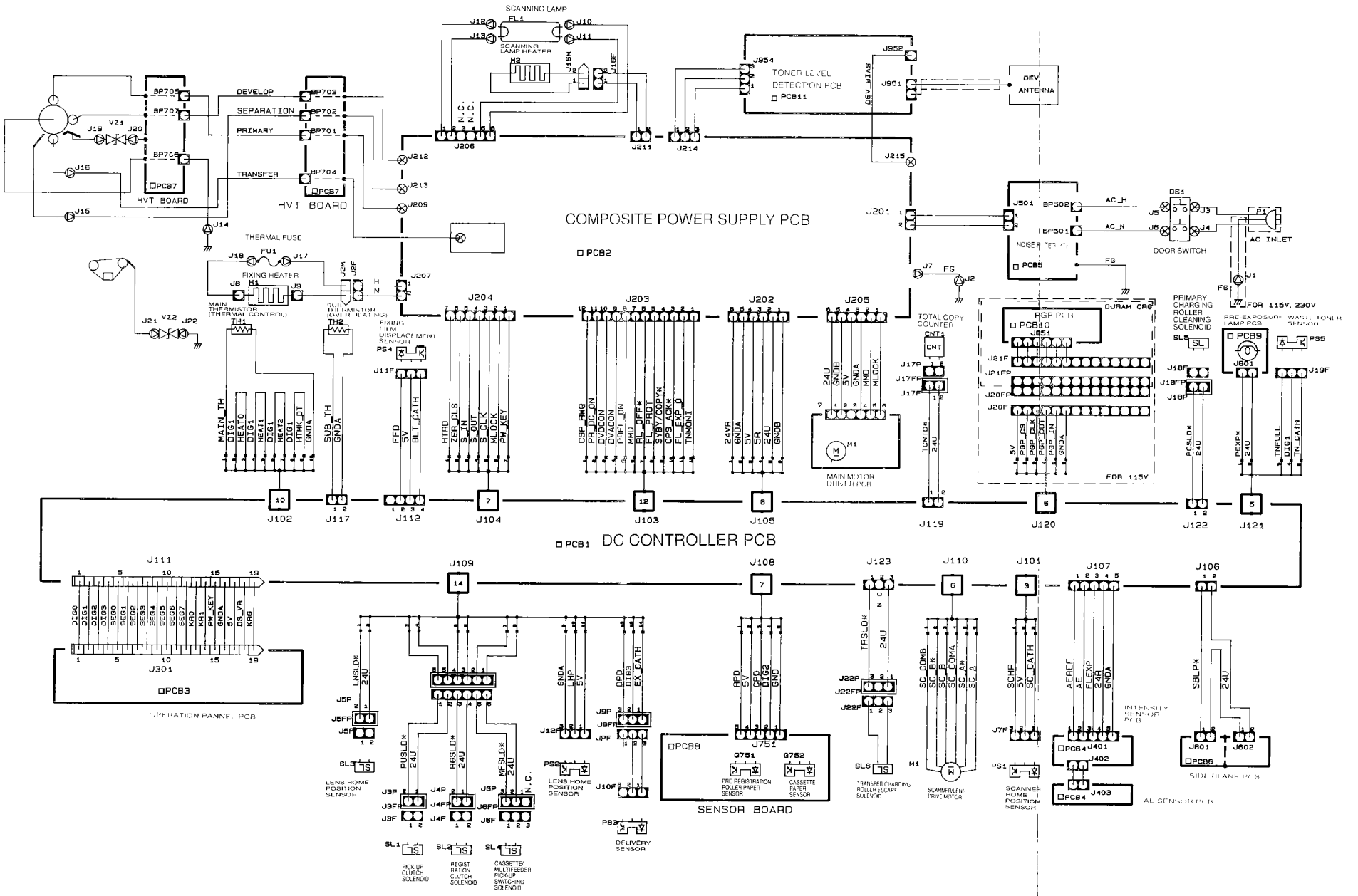
B. SIGNALS AND ABBREVIATIONS

1.Signals

ACBIAS	AC BIAS OSCILLATION signal
AE	AE SENSOR OUTPUT signal
AEREF	AE SENSOR REFERENCE signal
BIASS	DEVELOPING DC BIAS VOLTAGE DETECTION signal
CLSLD	CLEANING SOLENOID DRIVE command
CPD	CASSETTE PAPER DETECTION signal
DCBPWM	DC BIAS CONTROL signal
DPD	DELIVERY PAPER DETECTION signal
DVACON	DEVELOPING AC BIAS ON signal
DVDCON	DEVELOPING DC BIAS ON signal
FFD	FIXING FILM POSITION signal
FL ON	FLUORESCENT LAMP ON command
FLEXP	SCANNING LAMP INTENSITY signal
FLPRHT	PRE-HEAT VOLTAGE CONTROL signal
HTNG	FUSER HEATER NG signal
HTRD	HEATER DRIVE command
LHP	LENS HOME POSITION signal
LNSLD	LENS SOLENOID DRIVE command
MFSLD	MULTIFEEDER PICK-UP SOLENOID DRIVE command
MLOCK	MAIN MOTOR LOCK signal
MMCLK	MAIN MOTOR CLOCK signal
MMD	MAIN MOTOR DRIVE command
PACON	PRIMARY BIAS ON signal
PDCPWM	PRIMARY DC BIAS CONTROL signal
PUSLD	PICK-UP CLUTCH SOLENOID DRIVE command
RGSLD	REGISTRATION CLUTCH SOLENOID DRIVE command
RPD	REGISTRATION PAPER DETECTION signal
SBLP	SIDE BLANK EXPOSURE LAMP ON signal
SC-A	SCANNER MOTOR PULSE command A
SC-A*	SCANNER MOTOR PULSE command A*
SC-B	SCANNER MOTOR PULSE command B
SC-B*	SCANNER MOTOR PULSE command B*
SC-COMA	SCANNER MOTOR DRIVE command A
SC-COMB	SCANNER MOTOR DRIVE command B
SCHP	SCANNER HOME POSITION signal
SPD	SINGLEFEEDER PAPER DETECTION signal
TFDBCK	TRANSFER VOLTAGE MONITOR signal
TFWDRV	TRANSFER DC BIAS CONTROL signal
TFWON	TRANSFER DC BIAS ON signal
TFWS	TRANSFER CURRENT DETECTION signal
TH1	FIXING MAIN THERMISTOR signal
TH2	FIXING SUB THERMISTOR signal
TNMONI	TONER LEVEL signal
TREVON	TRANSFER POSITIVE BIAS ON signal
WTOF	EXCESS WASTE TONER signal

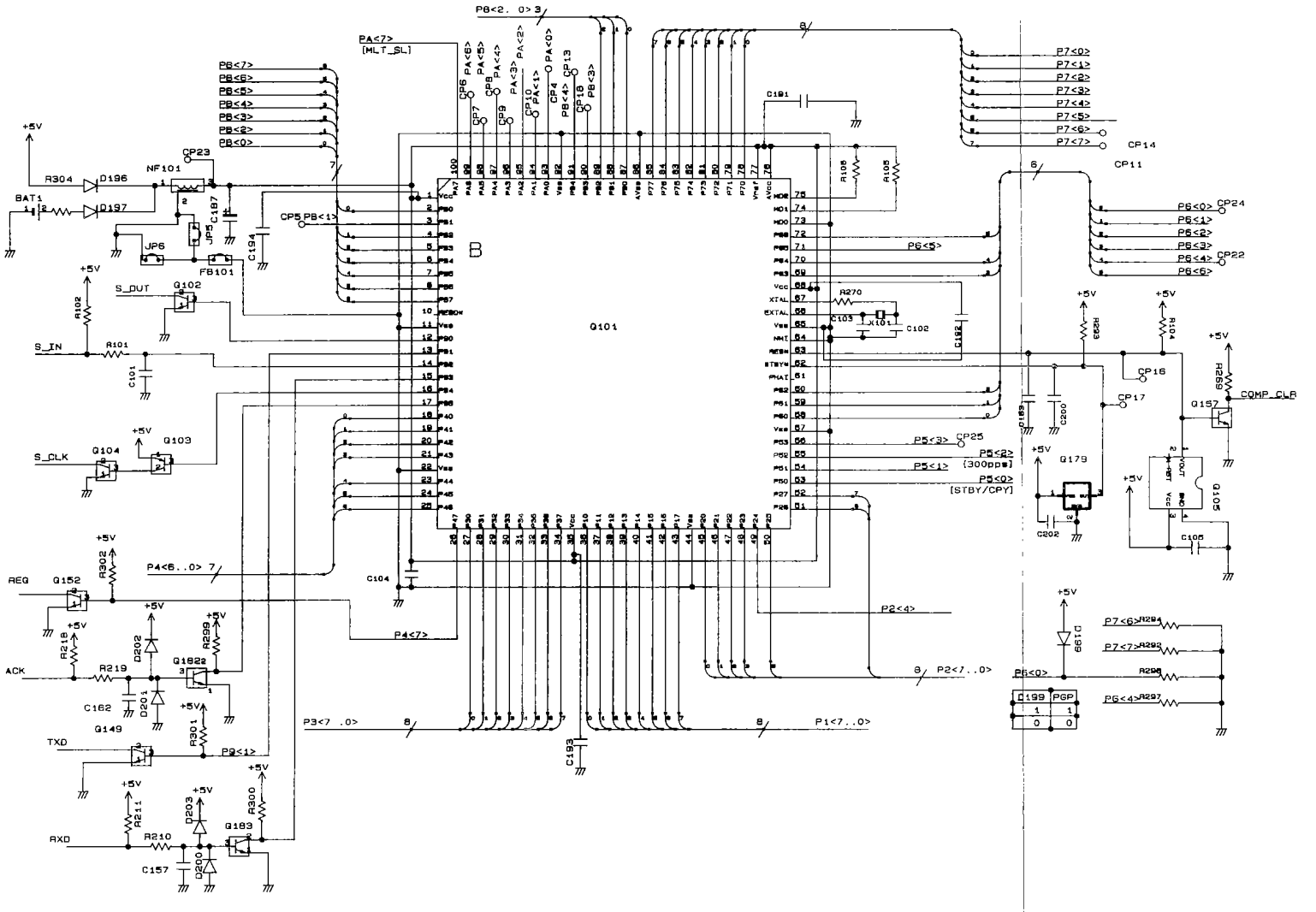
2. Abbreviations

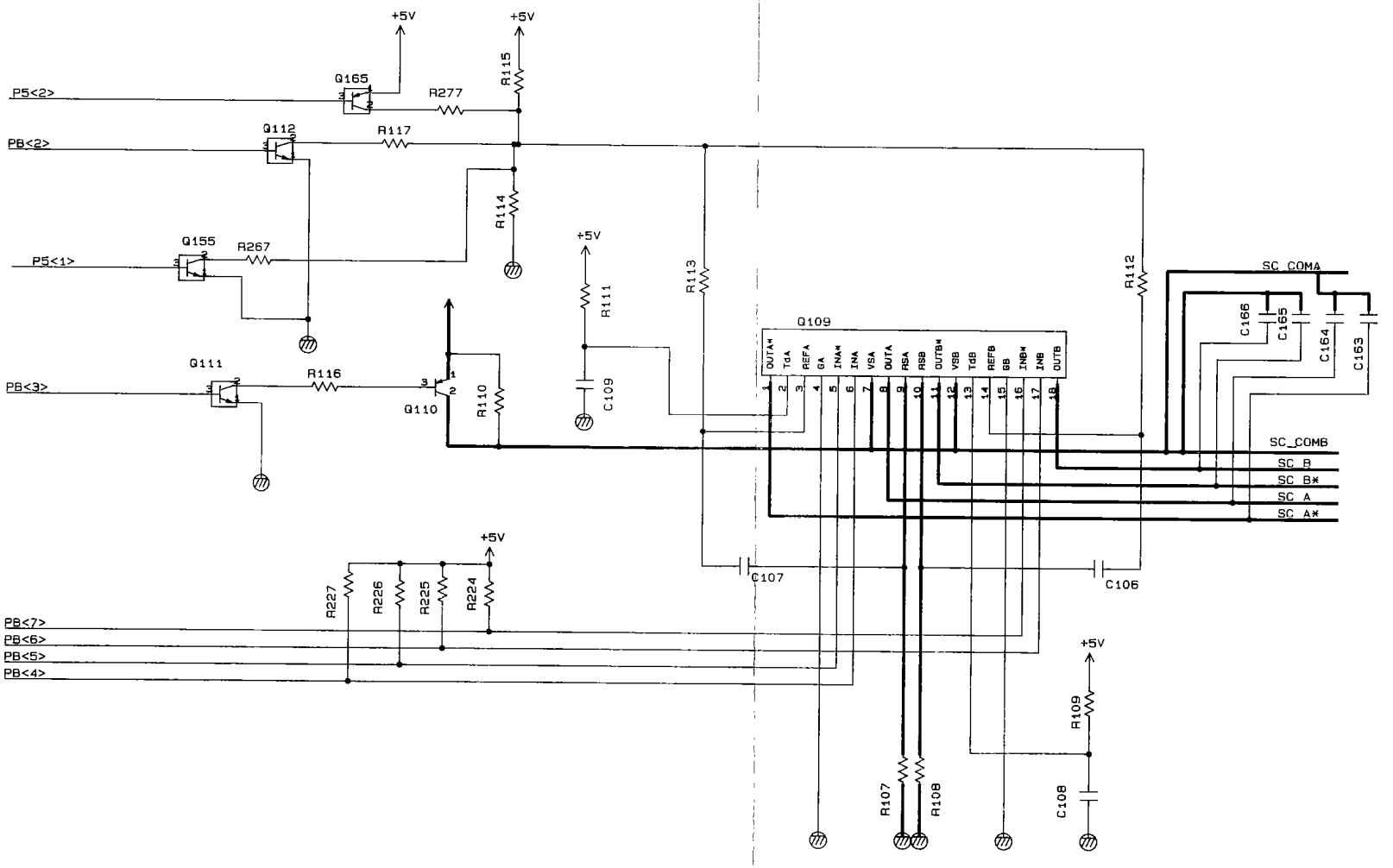
CBFW	COPY BOARD FORWARD
CBRV	COPY BOARD REVERSE
INTR	INITIAL ROTATION
LSTR	LAST ROTATION
STBY	STANDBY

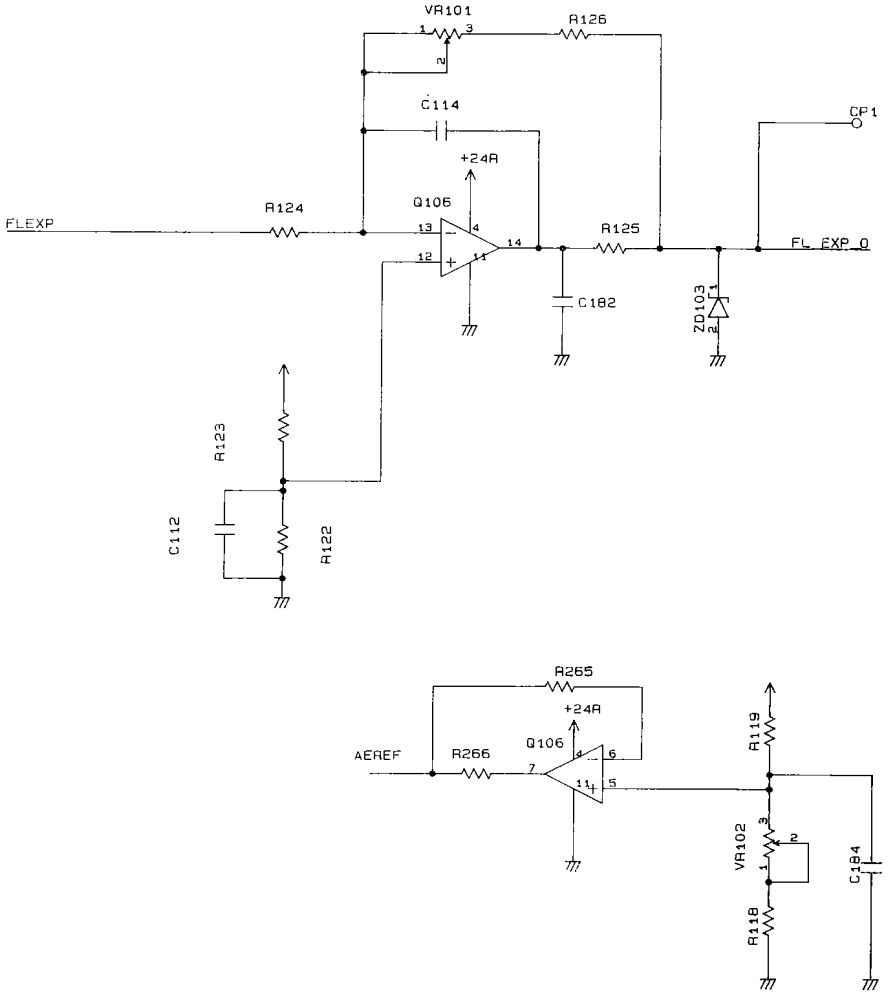

SCANNING LAMP
FL1
SCANNING LAMP HEATER
H2
TONER LEVEL DETECTION PCB
PCB11
DEV ANTENNA
DEVELOP
SEPARATION
PRIMARY
TRANSFER
HVT BOARD
PCB7
COMPOSITE POWER SUPPLY PCB
PCB2
THERMAL FUSE
FU1
FIXING HEATER
MAIN THERMISTOR (THERMAL CONTROL)
SUB THERMISTOR (OVERHEATING)
FIXING FILM DISPLACEMENT SENSOR
PS4
NOISE FILTER
DOOR SWITCH
AC INLET
FOR 115V, 230V
TOTAL COPY COUNTER
DURAM CRG
RGP PCB
PCB10
PRIMARY CHARGING ROLLER CLEANING SOLENOID
PRE-EXPOSURE LAMP PCB
PCB9
WASTE TONER SENSOR
PS5
MAIN MOTOR DRIVER PCB
DC CONTROLLER PCB
PCB1
OPERATION PANNEL PCB
PCB3
SENSOR BOARD
PCB8
LENS HOME POSITION SENSOR
PRE REGISTRATION ROLLER PAPER SENSOR
CASSETTE PAPER SENSOR
TRANSFER CHARGING ROLLER ESCAPE SOLENOID
SCANNER/LENS DRIVE MOTOR
SCANNER HOME POSITION SENSOR
DELIVERY SENSOR
PICK UP CLUTCH SOLENOID
REGIST RATION CLUTCH SOLENOID
CASSETTE/ MULTIFEEDER PICKUP SWITCHING SOLENOID
INTENSITY SENSOR PCB
SIDE TO SIDE PCB

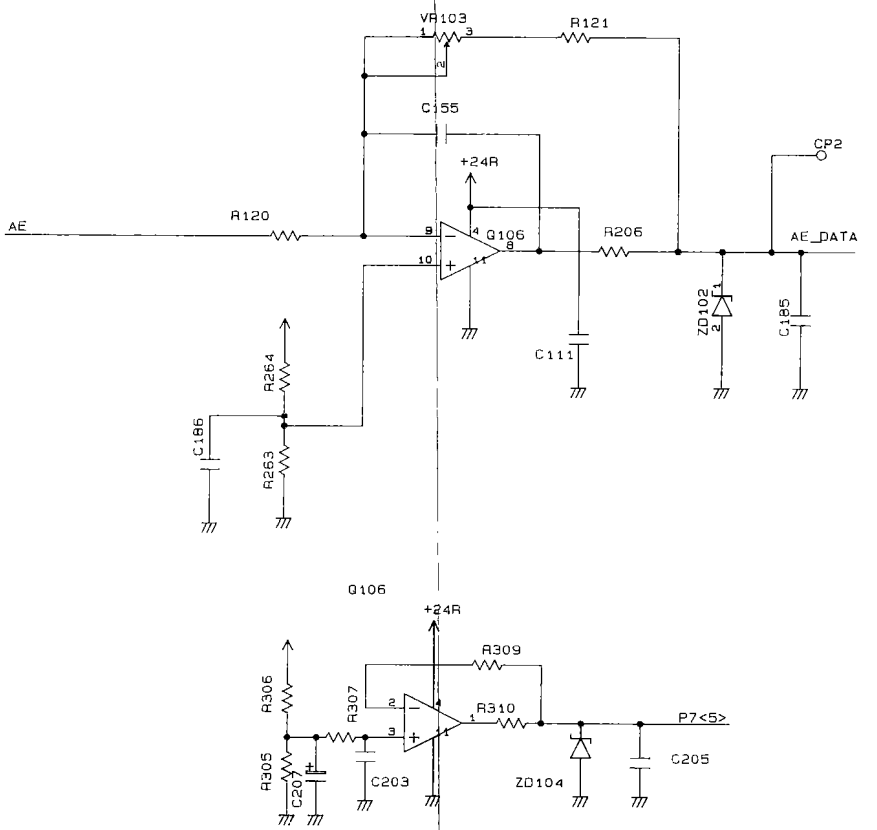
D. DC CONTROLLER CIRCUIT DIAGRAM

DC controller Circuit Diagram (1/8)

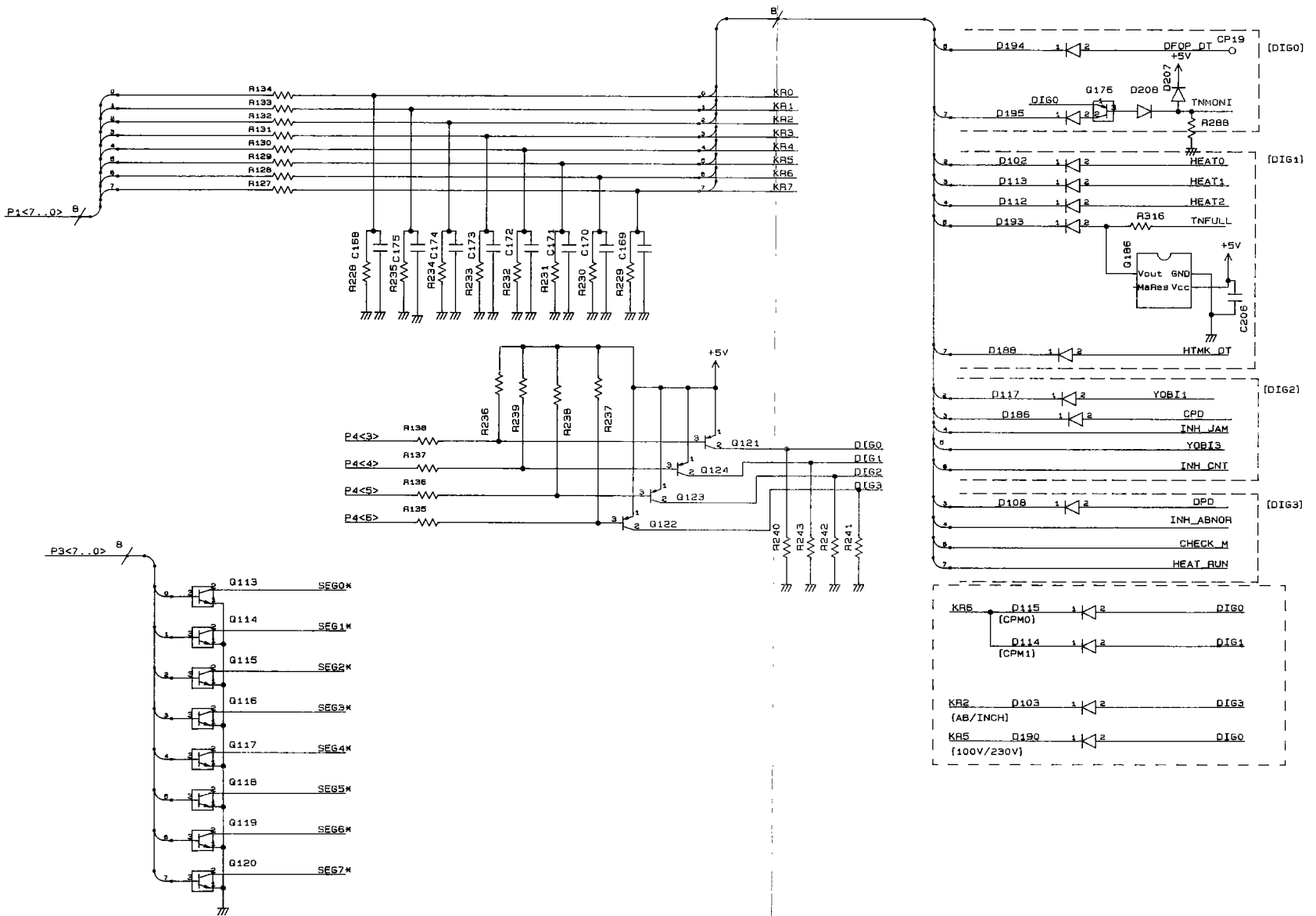


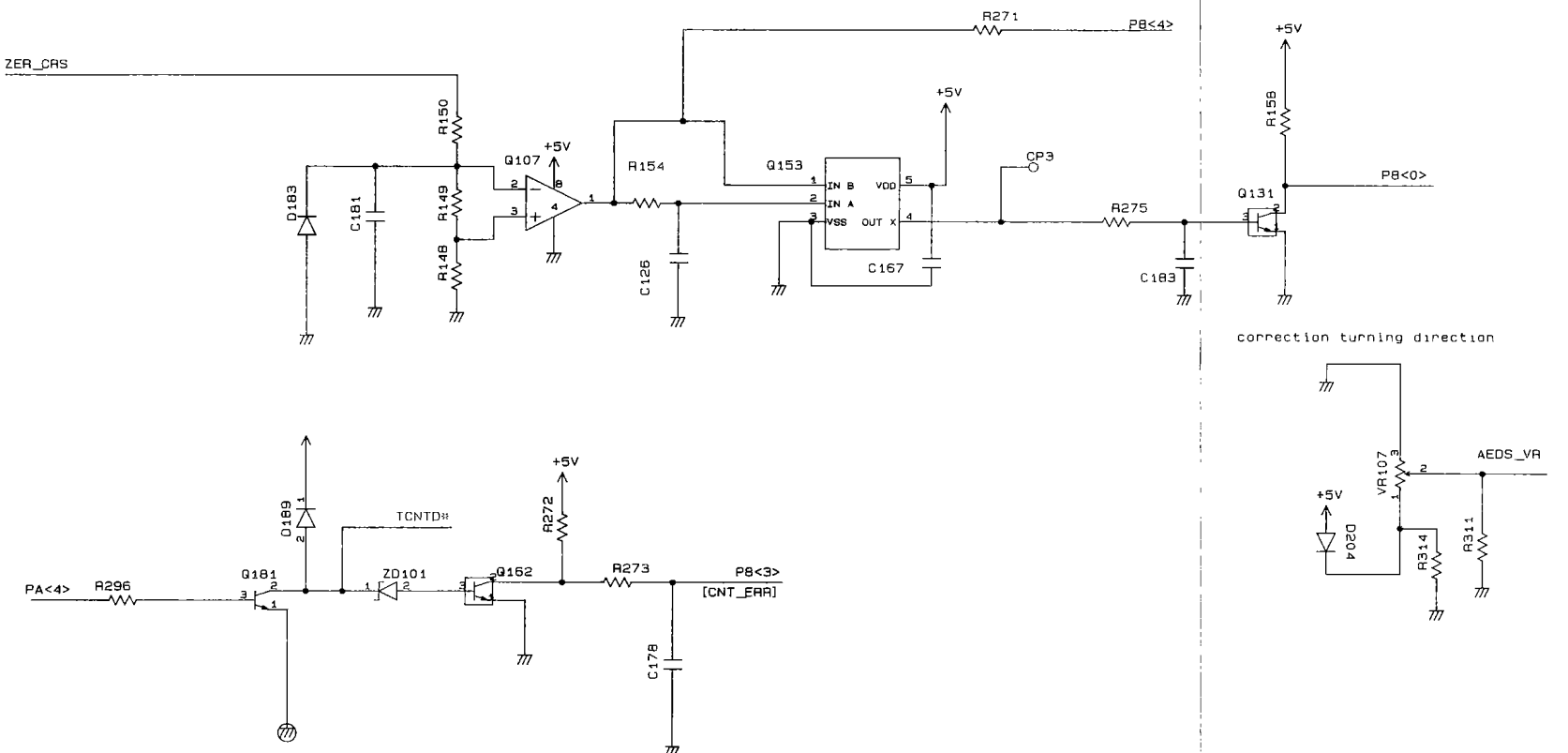

+5V
+5V
Q165
R277
R115
P5<2>
Q112
R117
PB<2>
R114
Q155
R267
P5<1>
+5V
R111
R113
R112
Q109
SC_COMA
C166
C165
C164
C163
Q111
R116
PB<3>
Q110
R110
C109
SC_COMB
SC_B
SC_B*
SC_A
SC_A*
+5V
C107
C106
R227
R226
R225
R224
PB<7>
PB<6>
PB<5>
PB<4>
+5V
R109
R107
R108
C108

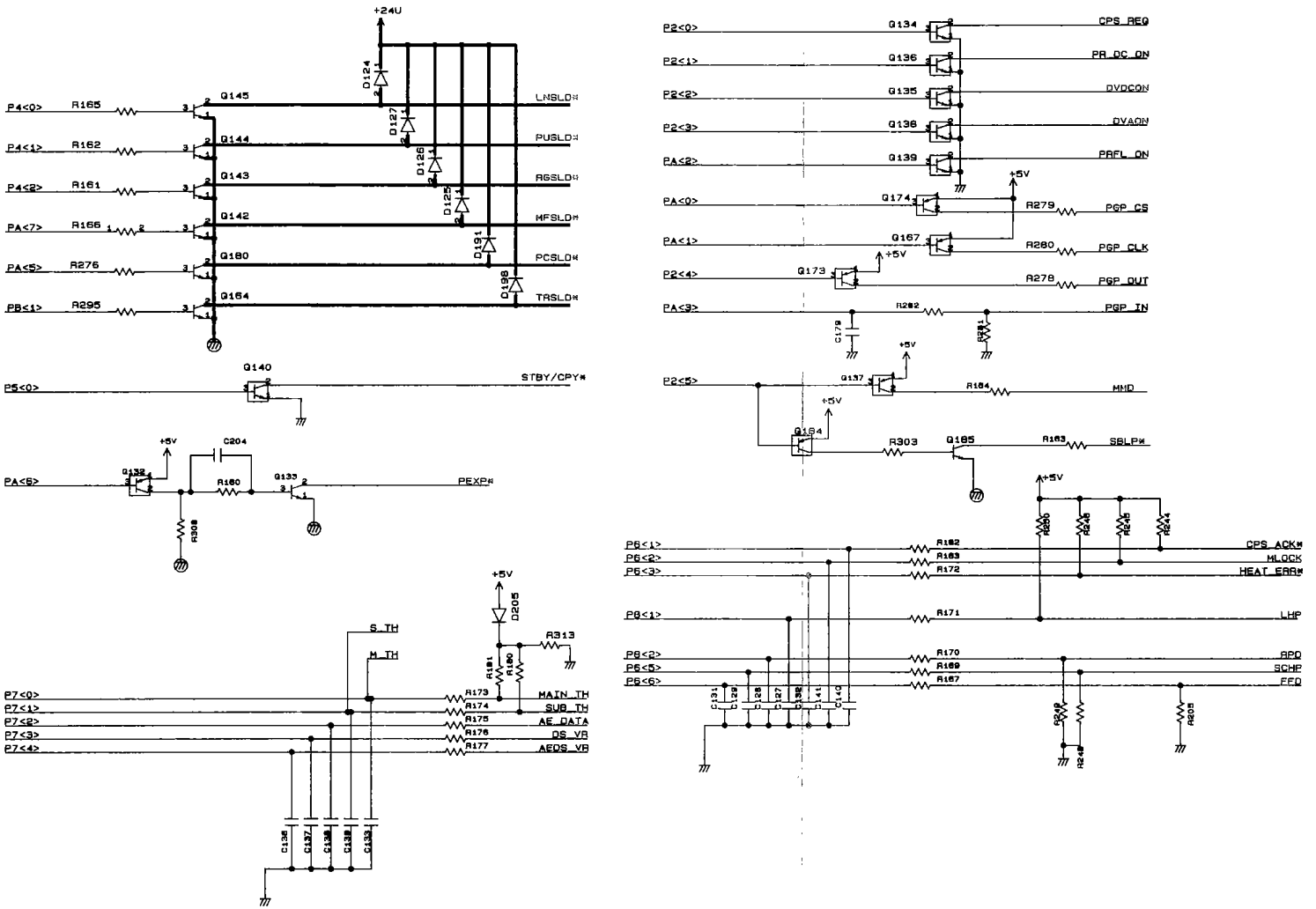

VR101
R126
C114
CP1
+24R
Q106
FLEXP
R124
R125
FL_EXP_0
C182
ZD103
R123
C112
R122
R265
+24R
Q106
AEREF
R266
R119
VR102
R118
C184

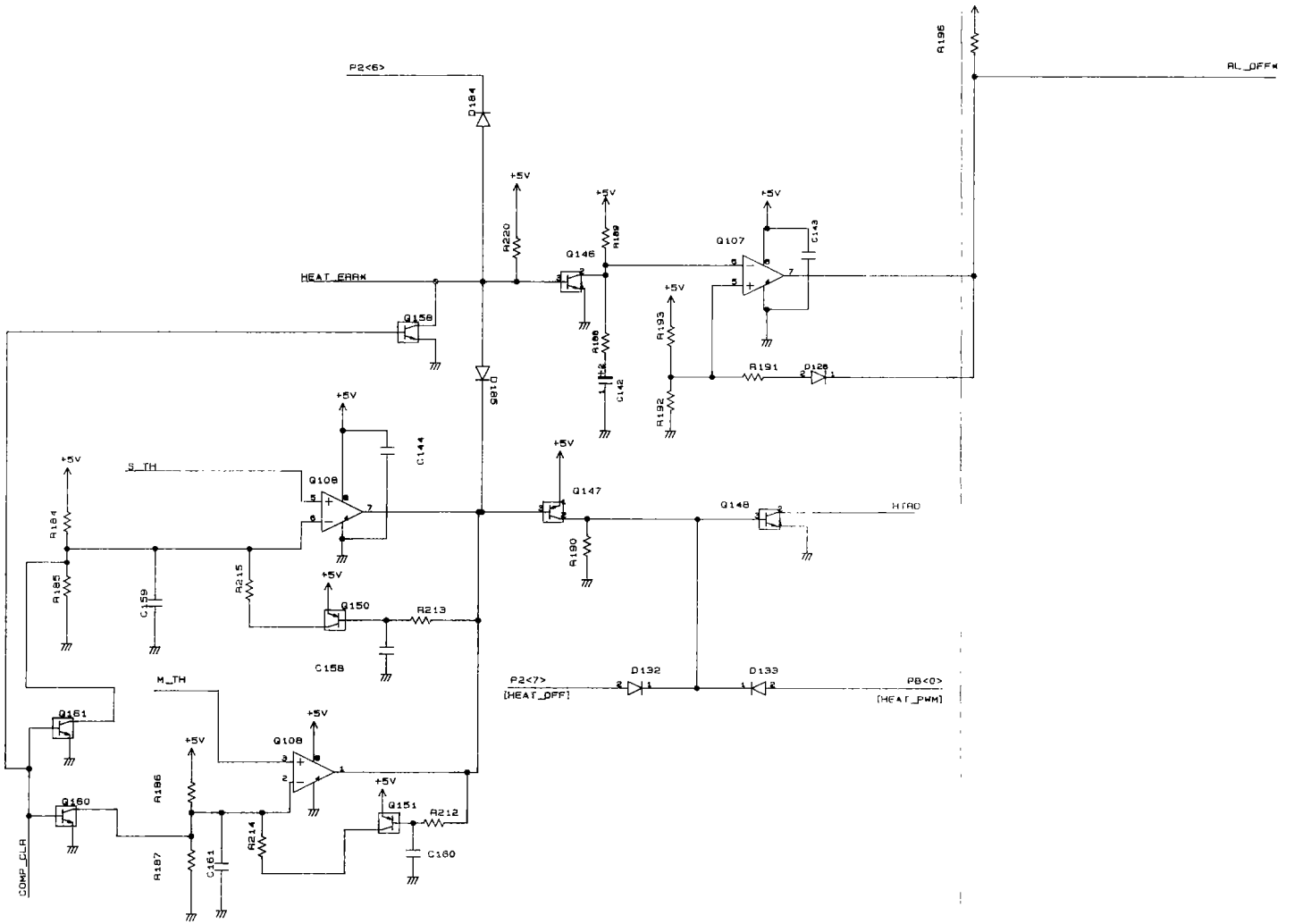

VR103
R121
C155
CP2
+24R
AE
R120
Q106
R206
AE_DATA
ZD102
C185
C111
R264
C186
R263
Q106
+24R
R309
R306
R307
R310
P7<5>
R305
C207
C203
ZD104
C205

DC controller Circuit Diagram (4/8)

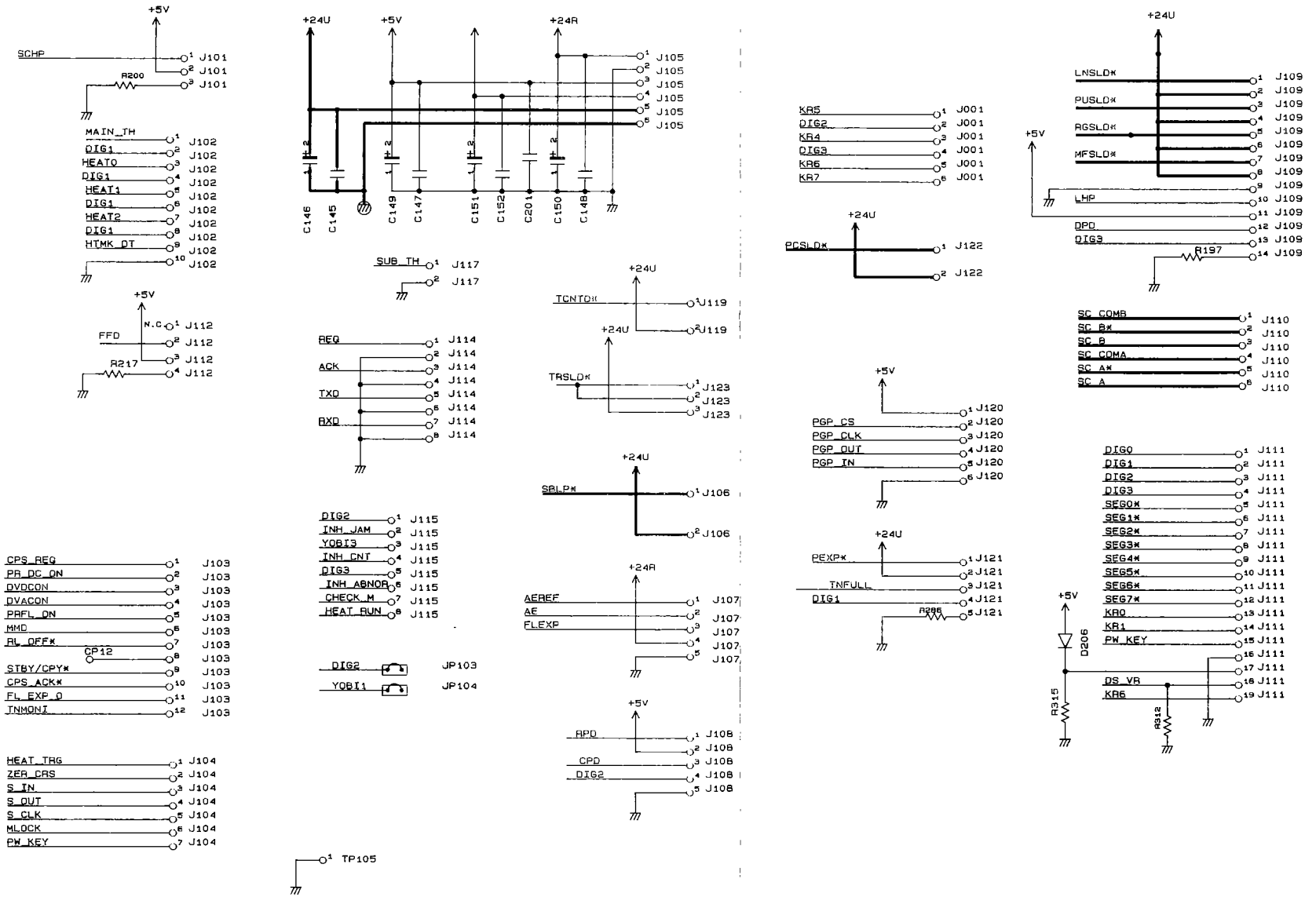



ZER_CAS
R150
D183
C181
R149
R148
Q107
+5V
R154
R271
P8<4>
Q153
IN B
IN A
VSS
VDD
OUT X
CP3
C126
C167
R275
C183
R158
Q131
P8<0>
correction turning direction
AEDS_VR
VR107
D204
R314
R311
PA<4>
R296
Q181
D189
TCNTD#
ZD101
Q162
R272
R273
P8<3>
[CNT_ERR]
C178


+24U
P4<0>
R165
Q145
LNSLD#
P4<1>
R162
Q144
PUSLD#
P4<2>
R161
Q143
RGSLD#
PA<7>
R166
Q142
MFSLD#
PA<5>
R276
Q180
PCSLD#
PB<1>
R295
Q164
TRSLD#
D124
D127
D126
D125
D191
D198
P5<0>
Q140
STBY/CPY#
PA<6>
Q132
C204
R160
Q133
PEXP#
R308
+5V
D205
S_TH
M_TH
R313
R181
R180
P7<0>
P7<1>
P7<2>
P7<3>
P7<4>
R173
R174
R175
R176
R177
MAIN_TH
SUB_TH
AE_DATA
DS_VR
AEDS_VR
C136
C137
C138
C139
C133
P2<0>
P2<1>
P2<2>
P2<3>
PA<2>
PA<0>
PA<1>
P2<4>
PA<3>
P2<5>
Q134
Q136
Q135
Q138
Q139
Q174
Q167
Q173
Q137
Q164
Q165
R303
R279
R280
R278
R282
R184
R183
CPS_REQ
PR_DC_ON
DVDCON
DVACN
PRFL_ON
PGP_CS
PGP_CLK
PGP_OUT
PGP_IN
MND
SBLP#
C179
R331
P6<1>
P6<2>
P6<3>
P6<1>
P6<2>
P6<5>
P6<6>
R182
R183
R172
R171
R170
R169
R167
R246
R245
R245
R244
CPS_ACK#
MLOCK
HEAT_ERR#
LHP
RPD
SCHP
FFD
C131
C129
C128
C127
C141
C140
R248
R205

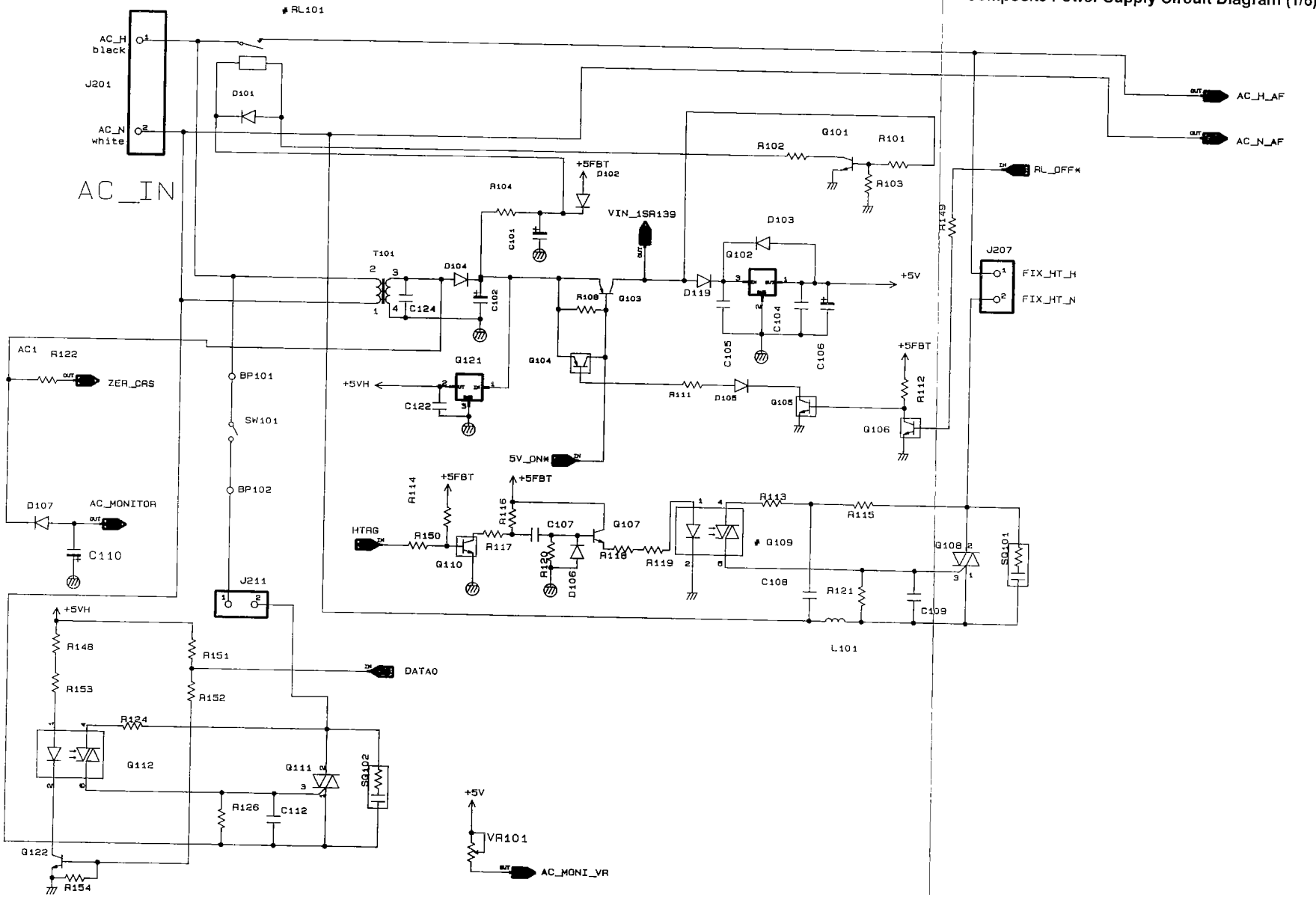

P2<6>
D184
+5V
R220
Q146
HEAT_ERR#
Q158
D185
R196
RL_OFF#
Q107
C143
R193
R191
D126
R192
C142
R100
C144
S_TH
Q108
Q147
Q148
H_RAD
R184
R185
C159
R215
Q150
R213
C158
M_TH
Q161
Q160
R186
R187
C161
R214
Q151
R212
C160
COMP_CLR
R190
P2<7>
[HEAT_OFF]
D132
D133
PB<0>
[HEAT_PWM]

DC controller Circuit Diagram (8/8)

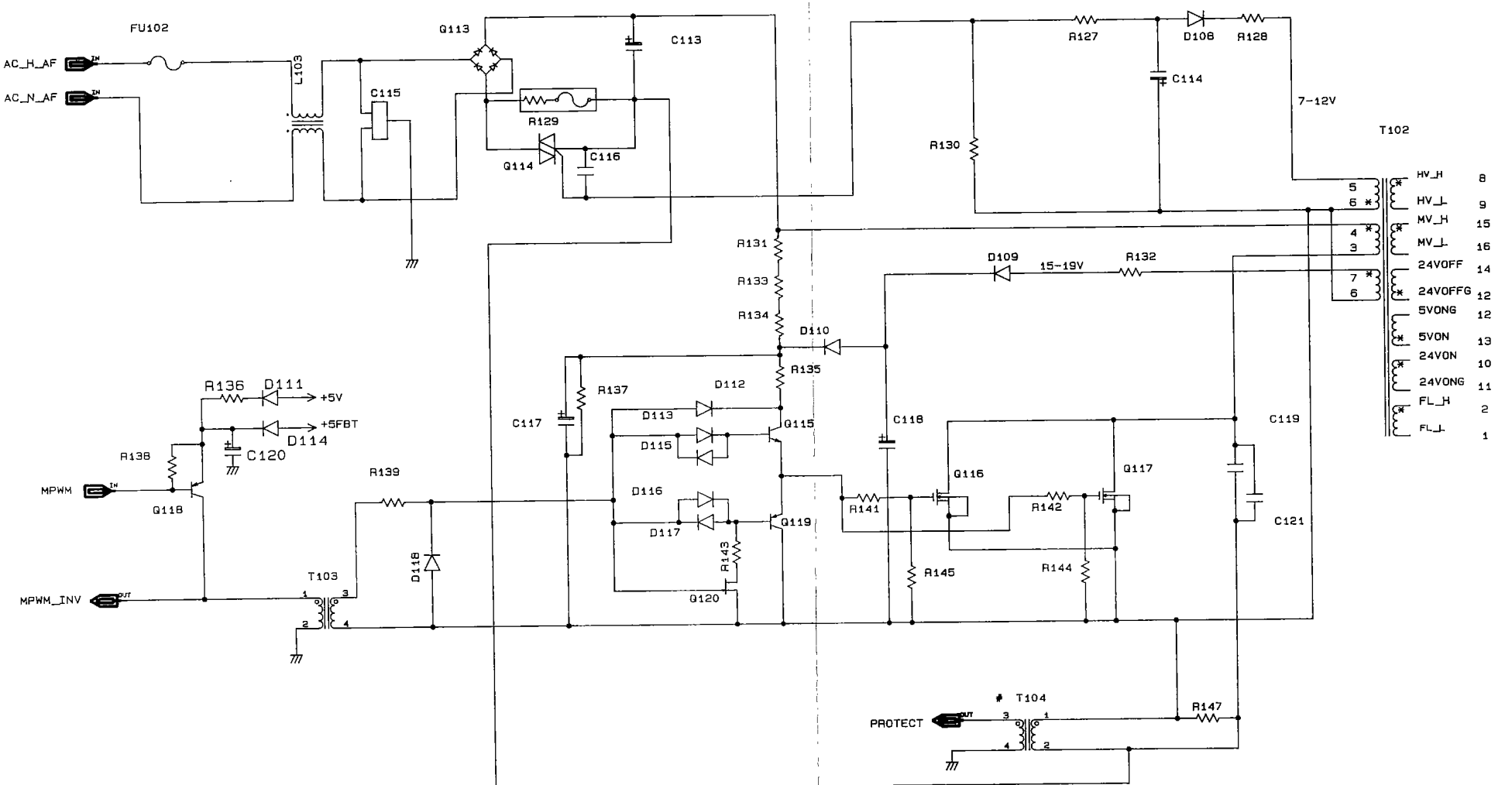


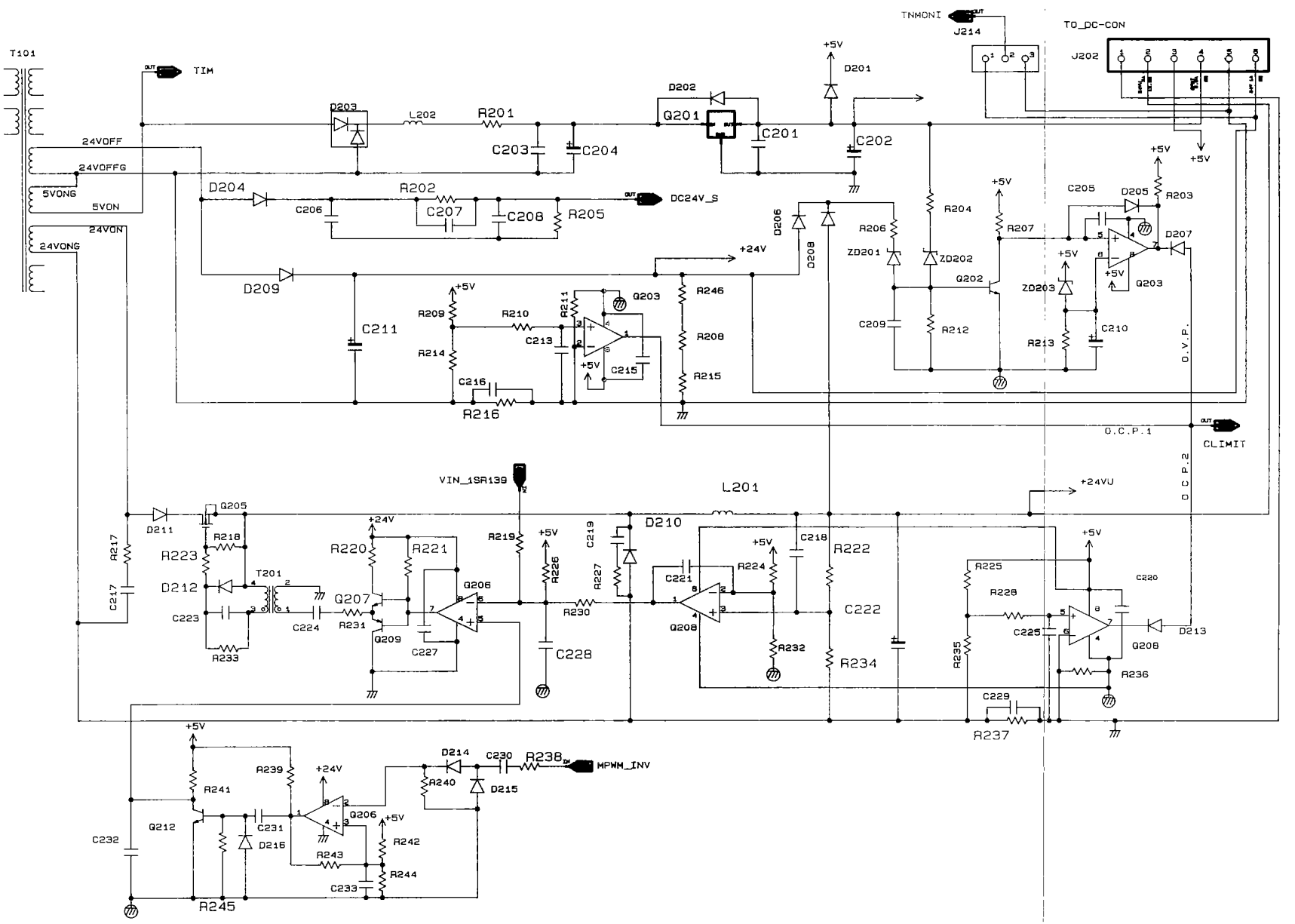
E. COMPOSITE POWER SUPPLY CIRCUIT DIAGRAM

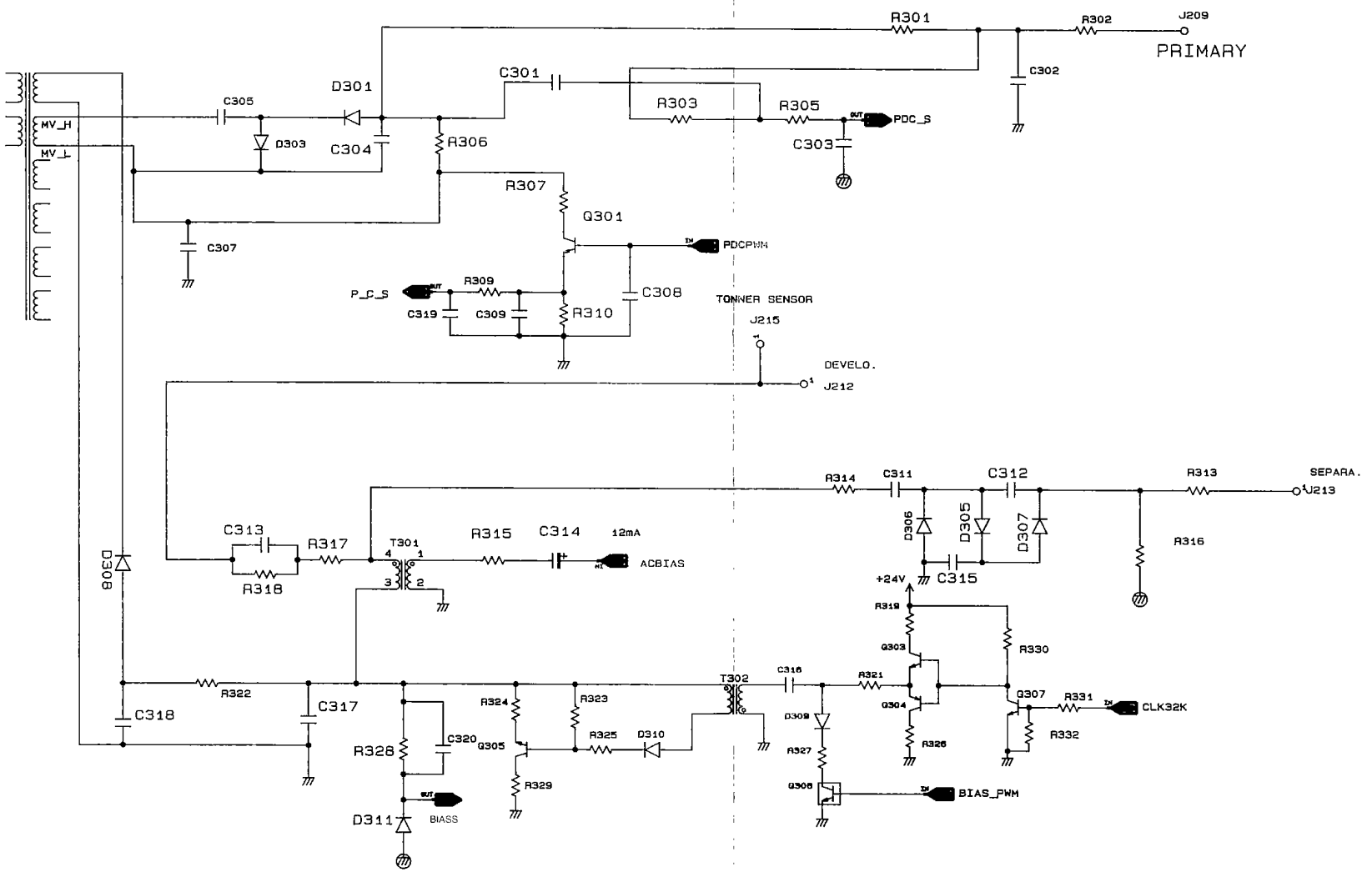
Composite Power Supply Circuit Diagram (1/6)

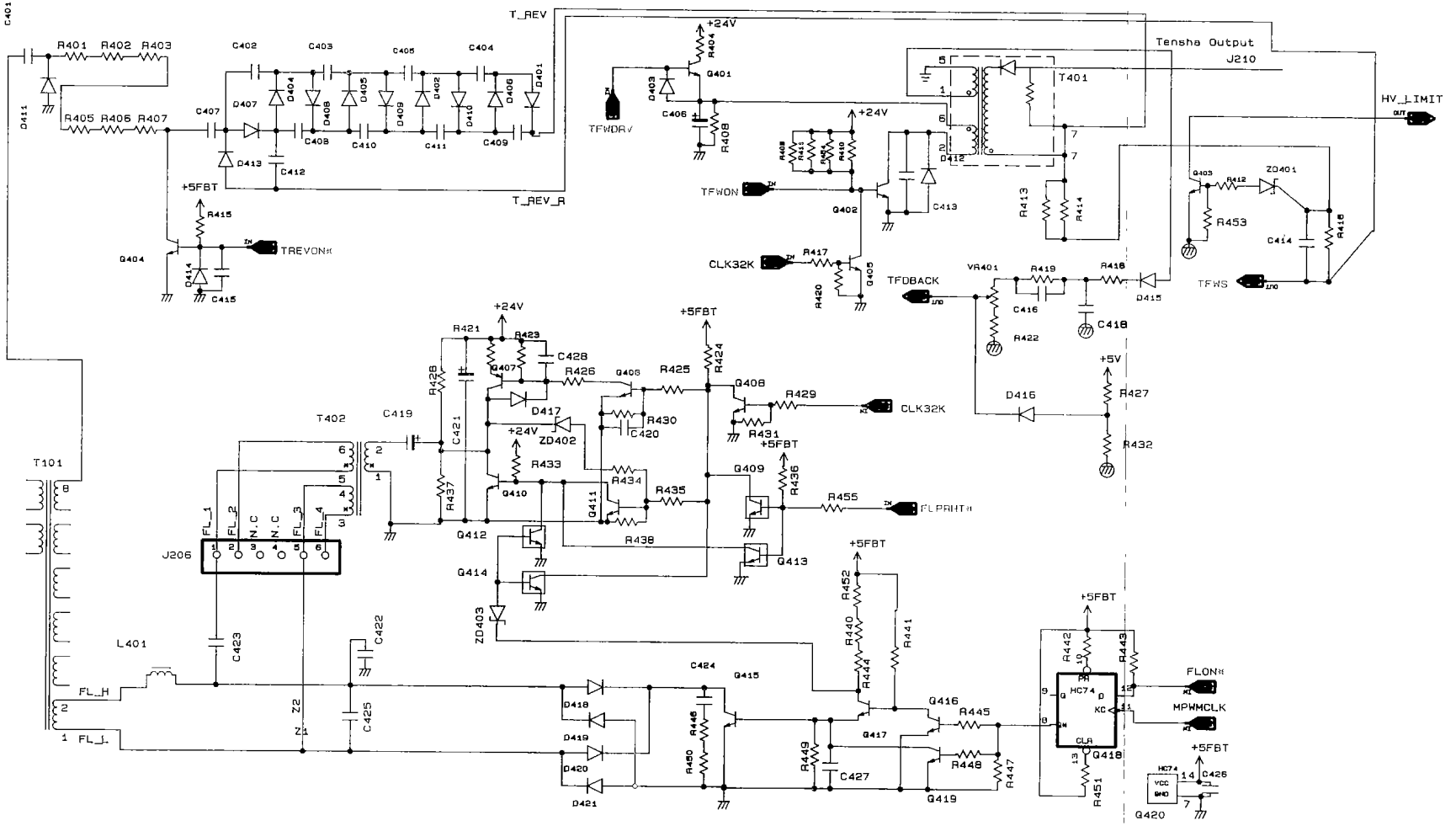


Composite Power Supply Circuit Diagram (2/6)

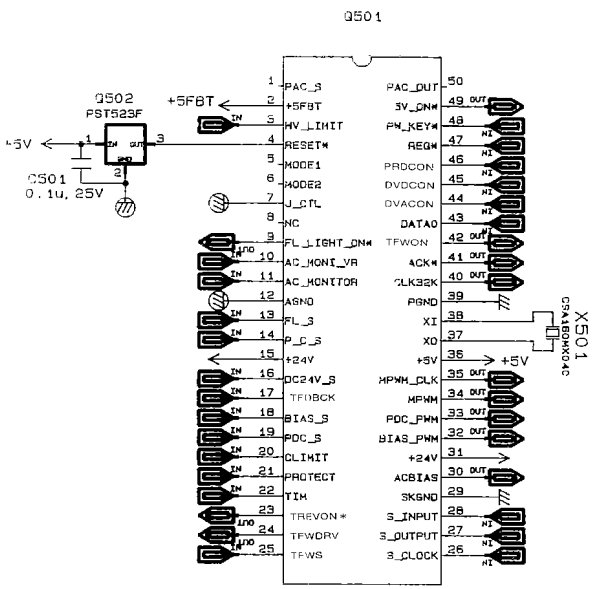


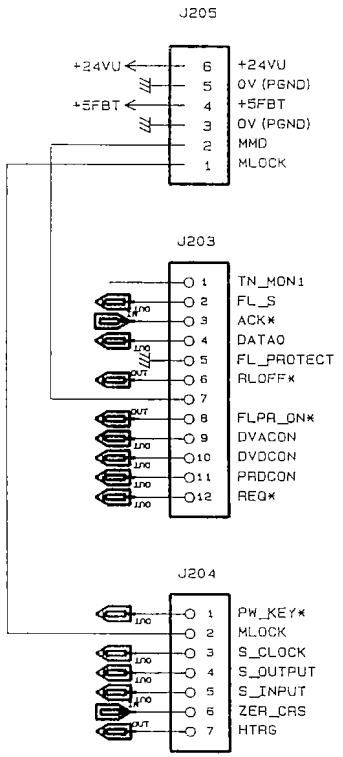

T101
TIM
24VOFF
24VOFFG
5VONG
5VON
24VON
24VONG
D203
L202
R201
C203
C204
D202
Q201
C201
D201
C202
TNMONI
J214
TO_DC-CON
J202
D204
R202
C206
C207
C208
R205
DC24V_S
D209
C211
+24V
D206
D208
R204
R206
ZD201
ZD202
R207
C205
D205
R203
D207
Q202
ZD203
Q203
C209
R212
R213
C210
O.V.P.
R209
R210
R211
C213
R214
C216
R216
C215
R246
R208
R215
O.C.P.1
CLIMIT
O.C.P.2
VIN_1SR139
L201
+24VU
Q205
D211
R217
C217
R218
R223
D212
T201
C223
C224
R233
R220
R221
Q207
R231
Q209
C227
Q206
R219
R226
C219
R227
C228
R230
D210
C221
Q208
R224
C218
R222
C222
R232
R234
R225
R228
C225
C226
Q208
D213
R235
R236
C229
R237
D214
C230
R238
MPWM_INV
R239
R240
D215
R241
Q212
C231
D216
Q206
R242
R243
R244
C233
C232
R245


R301
R302
J209
PRIMARY
C302
C301
D301
C305
R303
R305
PDC_S
C303
D303
C304
R306
R307
Q301
C307
PDCPWM
P_C_S
R309
C319
C309
R310
C308
TONNER SENSOR
J215
DEVELO.
J212
R314
C311
C312
R313
SEPARA.
J213
D306
D305
D307
R316
C313
R317
T301
R315
C314
12mA
ACBIAS
D308
R318
C315
+24V
R319
Q303
R330
T302
C316
R321
Q307
R331
CLK32K
Q304
R322
C317
R324
R323
D309
R332
C318
R328
C320
Q305
R325
D310
R327
R326
R329
Q306
BIAS_PWM
D311
BIASS

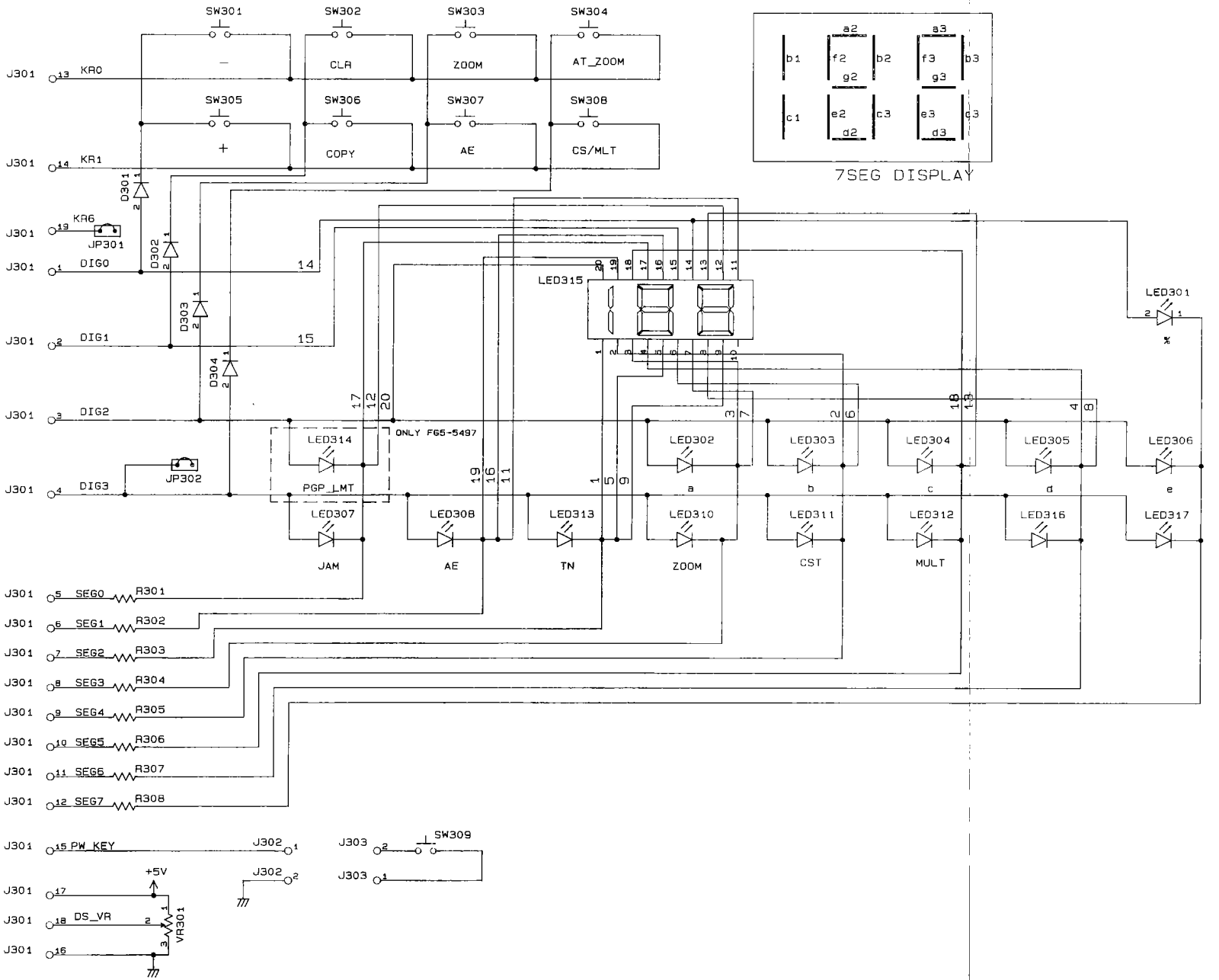

T_REV
Tensha Output
J210
HV_LIMIT
+24V
+5FBT
+5V
TFWDRV
TFWON
TFWS
TFDBACK
CLK32K
TREVON
T_REV_R
T401
T402
T101
J206
L401
FL_H
FL_L
FL_1
FL_2
N.C
N.C
FL_3
FL_4
FLPRHTR
FLON
MPWMCLK
HC74
R401 R402 R403
R405 R406 R407
C401
C402 C403 C404 C405 C406 C407 C408 C409 C410 C411 C412 C413
D401 D402 D403 D404 D405 D406 D407 D408 D409 D410 D411 D412 D413
Q401 Q402 Q403 Q404 Q405 Q406 Q407 Q408 Q409 Q410 Q411 Q412 Q413 Q414 Q415 Q416 Q417 Q418 Q419 Q420
R404 R408 R409 R410 R411 R412 R413 R414 R415 R416 R417 R418 R419 R420 R421 R422 R423 R424 R425 R426 R427 R428 R429 R430 R431 R432 R433 R434 R435 R436 R437 R438 R440 R441 R442 R443 R444 R445 R446 R447 R448 R449 R450 R451 R452 R453 R455
C414 C415 C416 C418 C419 C420 C421 C422 C423 C424 C425 C426 C427 C428
VR401
ZD401 ZD402 ZD403
D414 D415 D416 D417 D418 D419 D420 D421
Z1 Z2

Composite Power Supply Circuit Diagram (6/6)

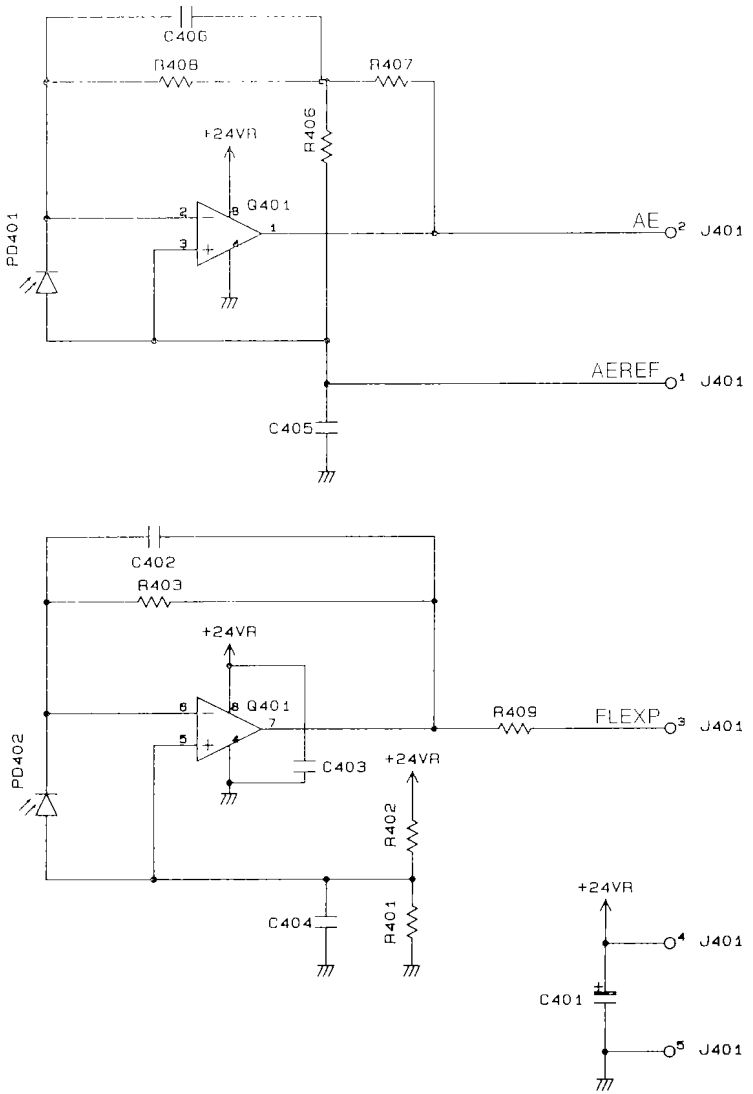




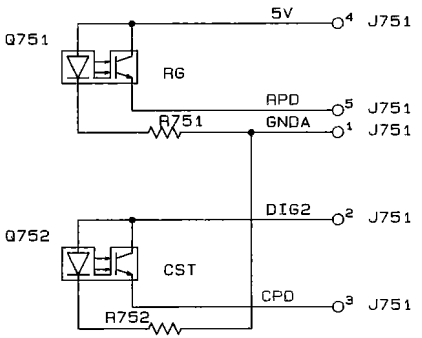
F. CONTROL PANEL CIRCUIT DIAGRAM



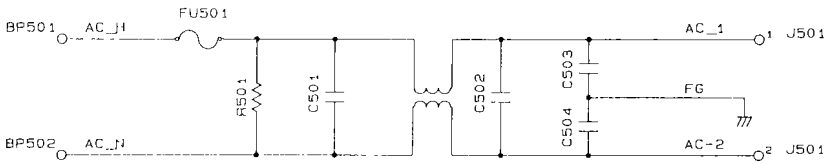
G. INTENSITY/AE SENSOR CIRCUIT DIARGAM



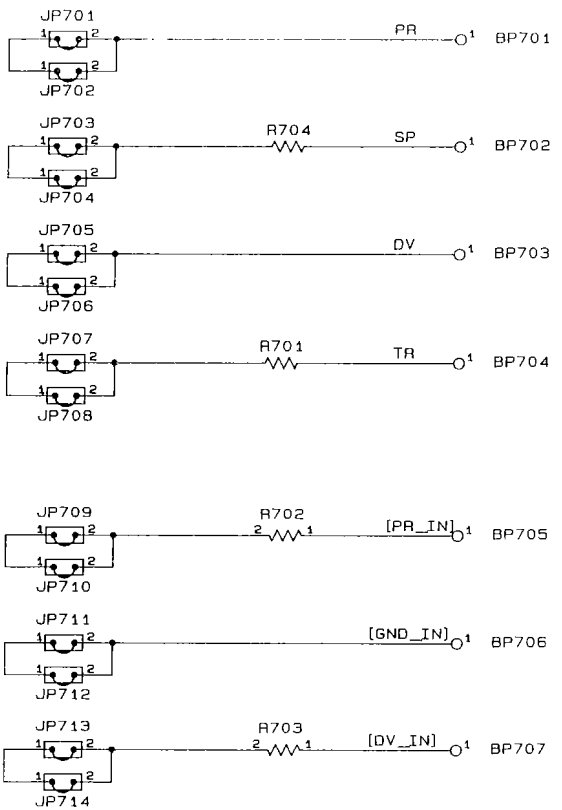
H. SENSOR CIRCUIT DIAGRAM



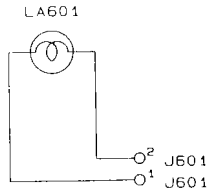
I. NOISE FILTER CIRCUIT DIAGRAM



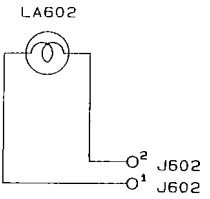
J. HIGH VOLTAGE CONTACT CIRCUIT DIAGRAM



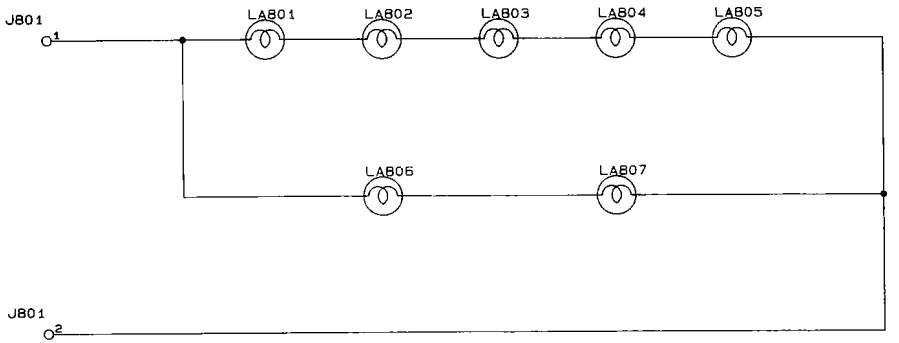
K. BLANK EXPOSURE (front) CIRCUIT DIAGRAM



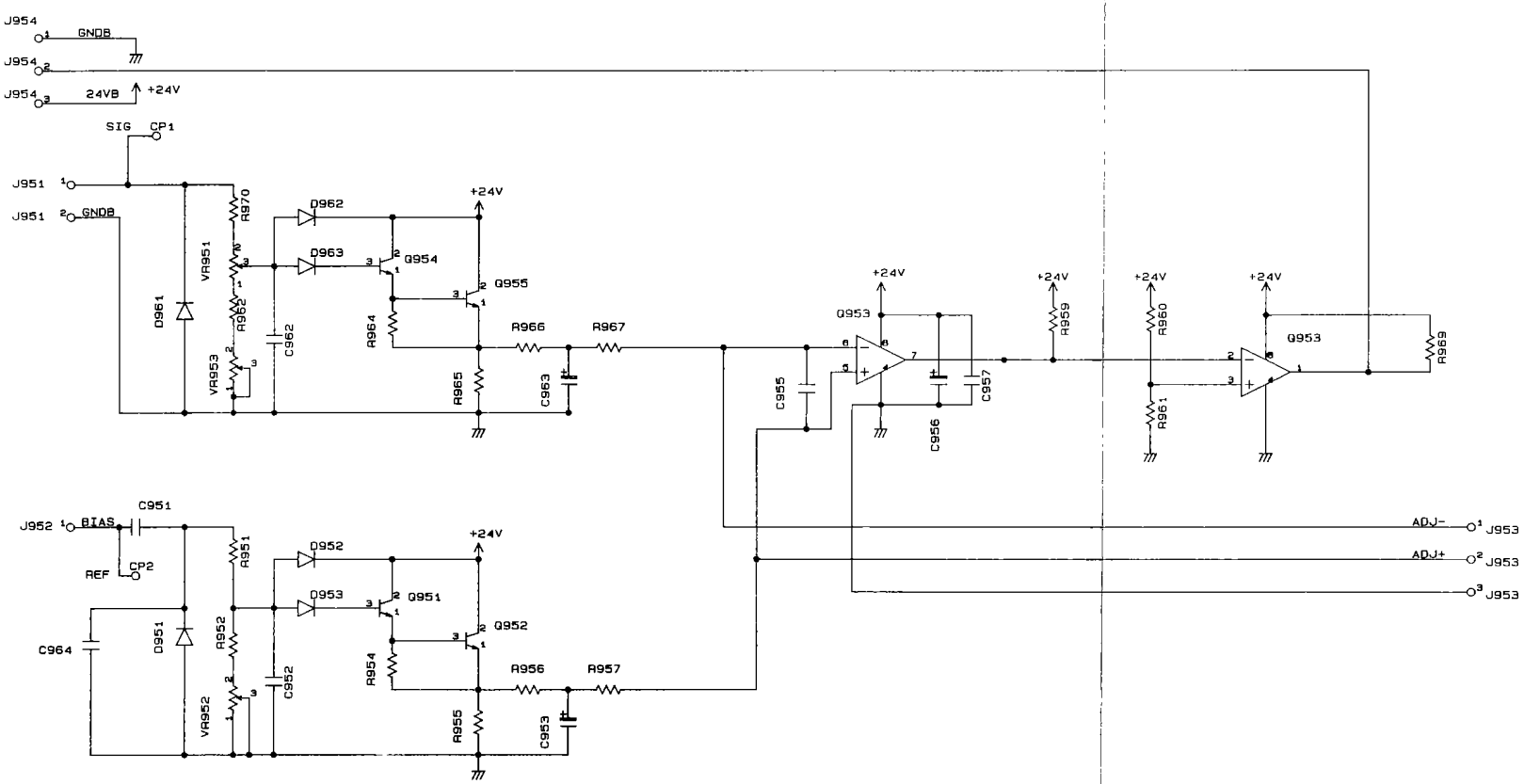
L. BLANK EXPOSURE (rear) CIRCUIT DIAGRAM



M. PRE-EXPOSURE CIRCUIT DIAGRAM

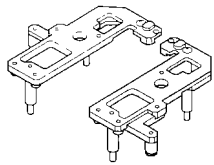


N. TONER LEVEL DETECTION CIRCUIT DIAGRAM



O. SPECIAL TOOLS

You will need the following special tool(s) in addition to the standard tools set when servicing the machine.

No.	Tool	Tool No.	Shape	Rank*	Remarks
1	Mirror positioning tool (pair for front and rear)	FY9-3009-020		B	For adjusting the distance between the No. 1 and No. 2 mirrors.

P. SOLVENTS/OILS

No.	Name	Uses	Composition	Remarks
1	Alcohol	Cleaning: e.g., glass, plastic, rubber parts; external covers	Hydrocarbon (fluorine family) Alcohol Surface active agent	• Do not bring near fire. • Procure locally. • Isopropyl alcohol may be substituted.
2	Solvent	Cleaning: e.g., metal; oil or toner dirt	Hydrocarbon (fluorine/chlorine family) Alcohol	• Do not bring near fire. • Procure locally.
3	Lubricating oil	Lubricating spring clutch	Mineral oil (paraffin family)	• CK-0451 (100cc)
4	Lubricating oil	Lubricating drive and friction parts, scanner rail	Silicone oil	• CK-0551 (20g)